



TransCorder

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Version: 2.0

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(1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation.



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Purchaser's Name: _____

Purchaser's Address: _____

City, State, Zip Code: _____

Model: ☐ TransCorder ☐ TransCorder Slim

Channel: ☐ 4 ☐ 8 ☐ 16 ☐ 32

Hard Drive Size: _____ Giga Bytes

Storage (TransCorder only): ☐ Tape Drive ☐ Zip Drive ☐ Hot Swap Drive

Serial Number: _____

Date of Purchase: _____

Dealer Name: _____

Dear Location: _____

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Chapter 1 Introduction

Thank you for using the TransCorder!

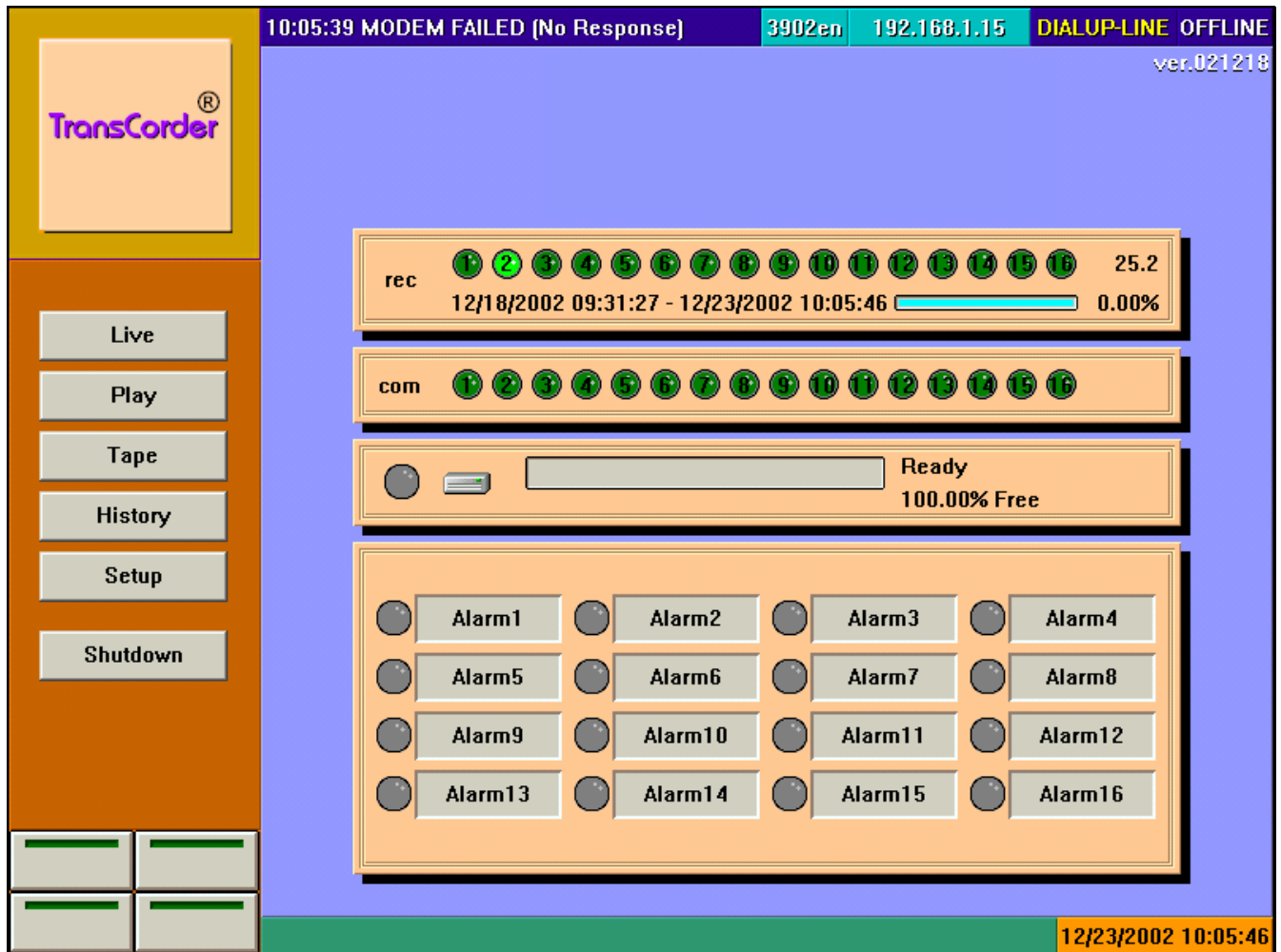
The TransCorder System combines video multiplexing, digital time-lapse recording, video motion detection, instant retrieval of image, remote video, all in on compact unit. You can simultaneously record, playback and archive image from one to sixteen cameras in your CCTV system without the need to purchase additional monitors or VCRs. Operated by the Windows graphical user interface and designed with state-of-art technology, The TransCorder System is one user-friendly, stand-alone TransCorder. The TransCorder System operates as a non-stop recorder even during playback, tape change and viewing or event searching.

.....

TransCorder Features

- **Triplex Multiplexing**
Record, Playback and Archive simultaneously
- Long period Time Lapse Recording
- **Remote Access**
Dialup and Local Area Network (LAN)
- Dual Media Device
40 / 80 / 160 / 200 GB HDD
4 / 10 GB Tape Drive (*Not available in 4/8 channel slim size models*)
- High Resolution 640x480 Pixels
Recording / Viewing / Printing
- **Intelligent Motion Detection**
- Alarm Turbo
- **Smart Tape Management** (*Not available in 4/8 channel slim size models*)
 - * Automatic Backup to Digital Tape
 - * Convenient Restoration Management
 - * Alarm Event Archiving
 - * Tape Change "buzzer" Reminding
 - * Tape Remaining Capacity "on-screen" indicating
 - * Tape Data Protection by password
 - * Portability for archived tapes
- Instant Retrieval of Recordings
by "alarm event", "time index", "activity" or "on the fly" search
- Alarm History up to 10,000 records
- **Pan/Tilt/Zoom Control Option**
- Any Windows Compatible Printer
can be connected for image printing





Chapter 2 The TransCorder Main Screen



This is the main screen of the TransCorder System. (The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 lights flashing and 4/8 alarms displayed) When you turn the power on to the system, this is the first screen that you will see after the stored data is loaded onto the unit.

On the left side of the screen, you will find the buttons that will access the other parts of our system:

1. Press **Live** to enter the live menu and select the number of cameras you want to view (up to 16 cameras) on the screen and to select the image display size and type.
2. Press **Play** to enter the playback menu to view the recorded images in the hard drive. You can select the camera channels desired and the video screen display type.

3. Press  to display information about the tape or restore a recorded tape for viewing. * (This button only appears if the unit has a Tape Drive)
4. Press  to display information about the tape or restore a recorded tape for viewing. * (This button only appears if the unit has a Hot Swap Hard Drive)
5. Press  to enter the setup menu to select the properties for cameras, alarms, and the other settings for the unit.
6. Press  to exit the TransCorder system and prepare for system shutdown.

The system status display occupies the rest of the screen:



This box displays the active cameras, indicated by the flashing lights scanning across the camera lights. (The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 lights flashing.)

The number to the right of the camera lights indicates the frames per second (fps) speed active on this unit. This number is divided among the number of active cameras on the unit.

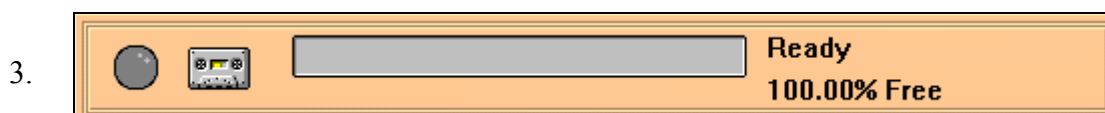
The date and time on the left refers to the earliest date and time recorded in the unit.

The date and time on the right refers to the most recent date and time recording into the unit. The time changes constantly to indicate that the unit is actively recording information into the unit.

The bar and percentage indicate the amount of free space in the hard drives. When the percentage reaches 0.0%, the unit rewrites over the earliest information stored onto the unit.



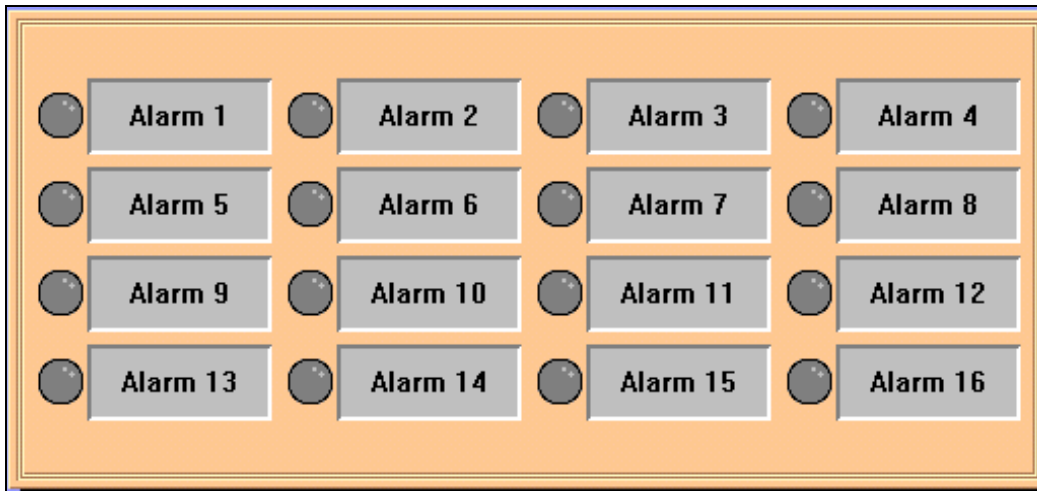
This box displays the cameras viewed remotely by transmission receiver software via modem when lit. (The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 lights flashing.)



This box displays the current status of the tape in the tape drive.

* (This box only appears if the unit has a Tape Drive)

4.



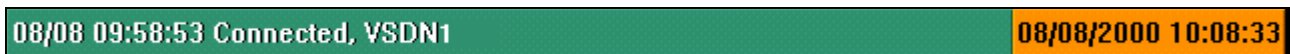
This box displays activated alarms that are triggered on the unit. (The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 alarms displayed) When an alarm is triggered, the corresponding alarm light will turn red and the alarm message will flash. Move the cursor on top of the arm box and click the left mouse button to turn off the alarm. If a keyboard is plugged into the back of the unit, pressing the spacebar will also turn off the alarm.

5.



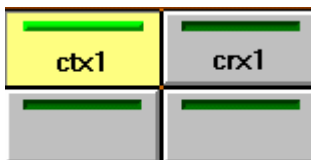
The top bar displays the name of the unit, the IP address of the unit if the unit is network capable, the modem setting of the unit (Dialup-Line or Leased-Line), and the current status of a remote site connecting to the unit via modem transmission (on-line or off-line).

6.




The left side of the bottom bar displays the most recent status of a remote site connecting to the unit via network. The right side of the bottom bar displays the current date and time of the TransCorder unit.

7.



The presence of four silver boxes on the bottom left side of the screen indicates that the unit is network capable. When one of the boxes lights up, it means that a remote site is connected to the unit via network, featuring the name of the remote computer connected within the lit square.

Chapter 3 The Live Menu

To view live video, click on the  button for the live screen display. A System Operator or Administrator password is required to enter this menu (see Setup menu for password configuration).



The live screen toolbar is located at the top of the screen, featuring these buttons:

1. 

The padlock icon is used to hide the toolbar. To show the toolbar, click on the open padlock icon or press the right-click button on the mouse and enter the Administrator or System Operator password (see Chapter 7 – The Setup Menu for password options).

2. 

On a 16 channel unit, click on the green arrow to switch between the first set of cameras (cameras 1-8) and the second set of cameras (cameras 9-16).



Press on the camera button to display the corresponding camera. Selecting and deselecting the camera button will not affect the recording of the camera, only the display.



Clicking this 4-square button will fill all the image display windows with camera images.



Clicking this 3-square button will limit each camera image to one frame. The other spaces will be left empty.



Click to select the number of image display windows. If the number of cameras selected for display is larger than the image display, then some of the screens will alternate between camera displays.



The Spot button turns on the Spot Window mode. The system will display a live image in one big frame and the others are displayed in smaller size frames. When you use the mouse to select any of the smaller images, the system will switch that frame to the live frame screen.




This button will take you to the image control panel. After entering the password, the user can adjust the hue, saturation, contrast and brightness for each individual camera. Click on the



button to restore the image default settings of the unit.



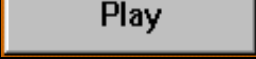
Press the  button to return to the main screen.

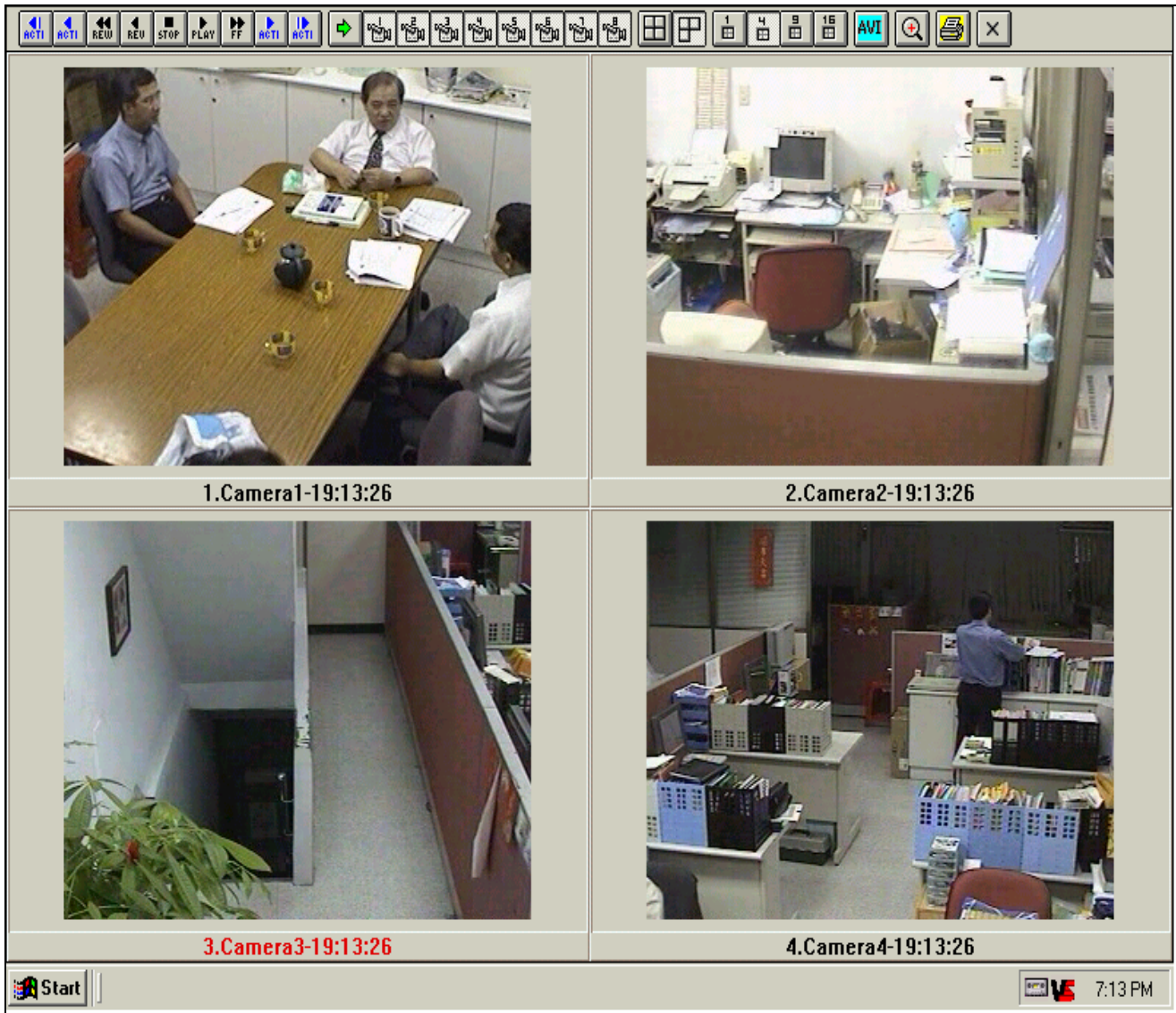


On the full screen display of a camera, click on this return button to return to the live menu.

If the toolbar is hidden and you go to the full screen display of a camera, the full screen will automatically revert to the live menu in 10 seconds.

Chapter 4 The Playback Menu

To view the playback menu, click on the  button to access the menu. A System Operator or Administrator password is required to enter this menu (see Setup menu for password configuration).



After pressing the Play button, the unit will take a few seconds to prepare the data for instant playback. When the unit is playing back images, it does not prevent current recording of images into the hard drive.

The playback menu features many of the same buttons as the live menu, with the notable exception that some of the cameras are grayed out and cannot be selected. This indicates that nothing was recorded for that camera input.

In addition, there are two sets of playback control buttons:

1. On the upper left corner of the screen are the Activity Playback buttons:



Press to search for previous activity starting point



Press to reverse activity playback



Press to stop playback



Press for normal playback



Press to search for next activity starting point

2. On the lower half of the playback screen is the Playback Control box:



The leftmost position of scroll bar indicates the earliest image recorded onto the unit and is designated as frame “1” of the unit with the time and date of the recorded frame. The rightmost position of the scroll bar is the most recent image recorded onto the unit. Even though the unit still records while in playback mode, new images will not be added until the user leaves the playback menu.

The Playback buttons work differently in Playback Control box:



Press for fast backward playing of the recorded images. The more the button is pressed, the faster the image runs backward.



Press to reverse image playback.



Press to stop playback



Press for normal playback



Press for fast forward playing of the recorded images. The more the button is pressed, the faster the image runs forward.



This button opens the Time Search Window (Edit Tape Scope):

Edit Tape Scope

Current Time

Date 2001 / 5 / 18

Time 21 : 46 : 1

Start Time

Date 2001 / 5 / 18

Time 21 : 46 : 1

End Time

Date 2001 / 5 / 24

Time 17 : 59 : 57

OK

Cancel

Reset

The time and date can be adjusted in this window by using the keyboard or using the arrows.


Current Time: Current Time shows the current frame of a timed clip that a viewer wishes to see. The time and date in this section always falls within the Start Time and End Time parameters. The Current Time is also determines the location of the scroll bar cursor.

Start Time: Start Time shows the beginning of a timed clip that the viewer wishes to see. The default is the earliest frame recorded on the unit.

End Time: End Time marks the end of a timed clip that the viewer wishes to see. The default is the most recent frame recorded on the unit.

Using Image Zooming Function



To zoom an image or picture, you will need to select the image you want to zoom, then click the desired image, then single view of image will be shown on the screen. Exit the screen back to PLAY mode and make sure the image that beeing zoomed is indicated then press  button. Selected image will be displayed as following:



- A. Press to return image back to original size at anytime.
- B. Press to zoom in the image. Point the cursor to main screen then left click the mouse to enlarge the frame. The maximum size is 100 times of original size. In preview screen, you can move thumbnail to any desired point and the enlarged view will be displayed at main screen.
- C. Press to zoom out of the image.
- D. Press to darken the image.
- E. Press to increase brightness the image.
- F. Press to save image in JPEG format on 1.44MB floppy or other storage device.
- G. Press to print the image with default printer.
- H. Press to exit zooming function.

Chapter 5 The Backup Menu (Available only on units with Backup drive)

Note: The Backup menu only appears on units that contain a Backup drive.

This system uses one of the following Backup drives:

- A. Seagate Tape Drive versions STT38000 (4 Gig Travan Tape) and STT20000 (10 Gig Travan Tape).
- B. Hot Swap Hard Drive.

This chapter will deal with all aspects of the Tape/Hard Drive and its functions and the appropriate menus in the Main Screen and under the Setup tab.

Important note: If you do NOT activate the Backup menu before inserting the Backup Medium into the Backup Medium, the unit will automatically attempt to format the Backup Medium and erase any information currently on the Backup Medium. If you have archived data that you wish to restore from a Backup Medium, select the **Backup** menu before entering the Backup Medium into the unit. Also remove the Backup Medium while the **Backup** menu is displayed to keep the archived data on the Backup Medium.

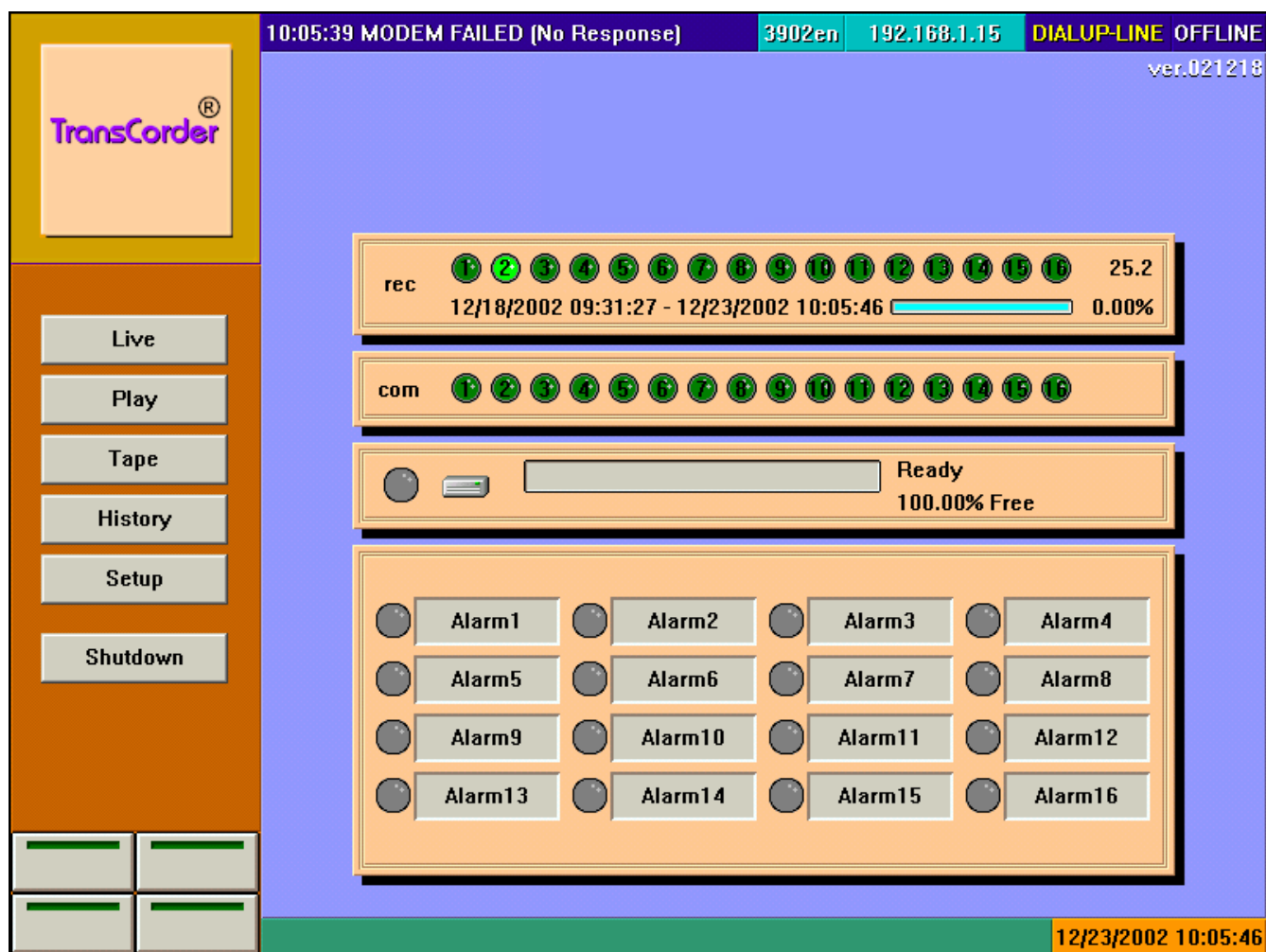
Backup on Tape Drive(Available only on units with Tape drive)

The Tape Status on the Main Screen

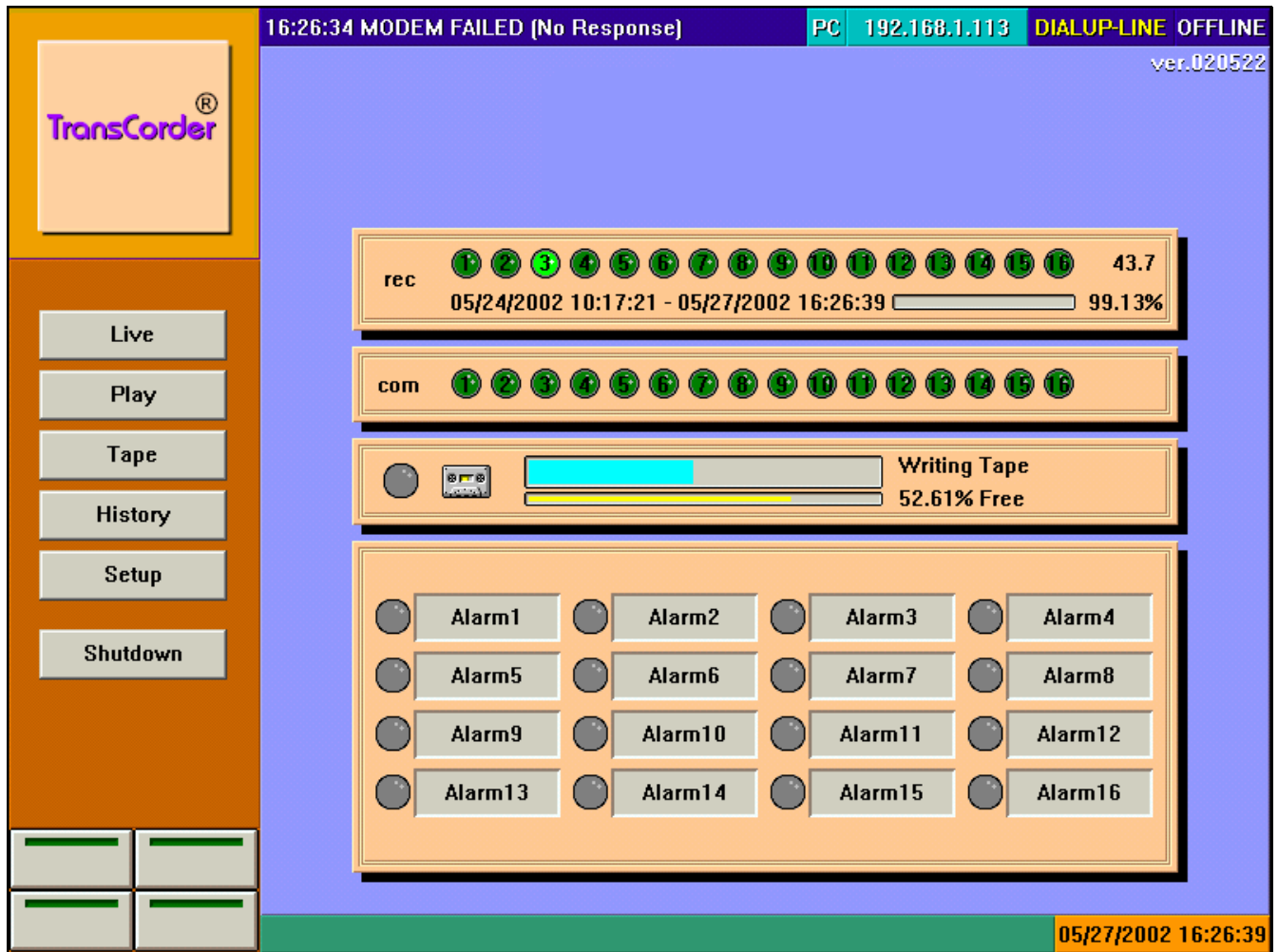
When a tape is loaded into the unit while the main screen is displayed, the unit will automatically attempt to format the tape unless this unit has used this tape earlier. After the tape is formatted, the system will record the most recent data into the tape, for the tape that already content recorded data form this unit, the unit will continue to backup data into this tape.

Alarms and alerts regarding this function can be found under the **Backup tab** in the **Setup Menu**.

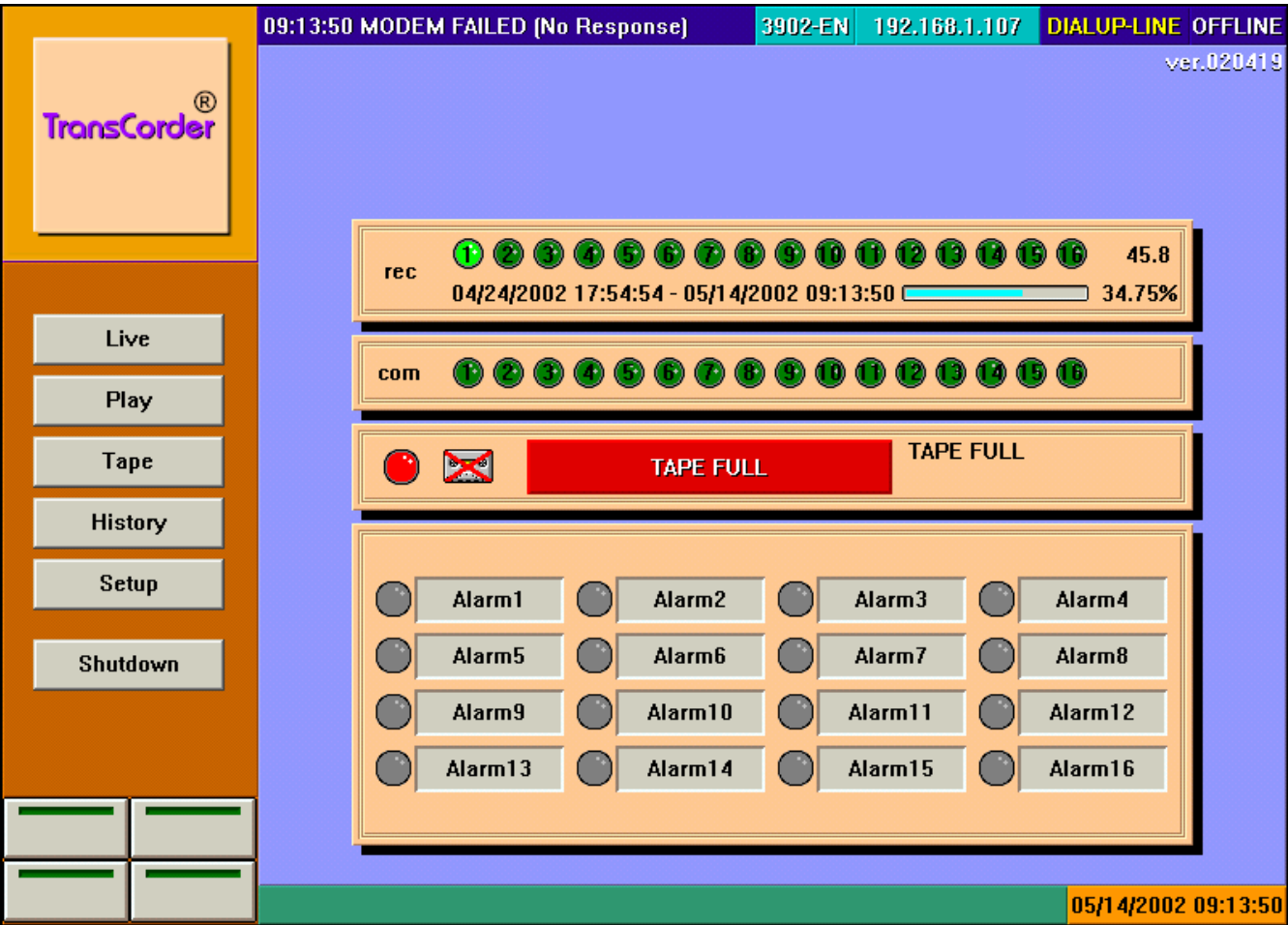
The system will start to load the tape and mounting (preparing the tape for writing) before recording onto the tape. It is important that the tape is not removed during this process or damage will occur to the tape.



When the tape preparation is complete, the tape status will indicate “Ready” and the percentage of free space left on the tape. An unused tape will be indicated at 100.00% Free. At this time, it is safe to remove the tape from the unit.



At certain stages, the system will backup the data from the hard drive to the tape and display the above message. When the bar turns yellow, the system is actively backing up the data from the system to the tape. Do not remove the tape from the drive during this process.



The buzzer will sound when the Tape is Full, alerting the user to remove the tape.

Backup on tape's Management

For units that contain Tape Drive, to view the Backup menu, click on the **Tape** button to access the menu.

The screenshot displays a software interface for tape management. It is divided into four main sections:

- Tape Information:** A box containing the following details:
 - Tape Name: ABC
 - Start Time: 07/05/1998 07:44:01
 - End Time: 07/06/1998 14:08:24
 - State: Ready
 - Status: (empty)
- On Tape History:** A table listing detected alarms.

Start Time	Alarm#.Description
07/06/1998 14:05:53	1.Alarm1
07/06/1998 14:05:54	2.Alarm2
07/06/1998 14:05:55	3.Alarm3
07/06/1998 14:05:55	4.Alarm4
07/06/1998 14:05:58	1.Alarm1
- Tape Restoration:** A box for selecting a time range to restore.
 - From: 07/05/1998 07:44:01
 - To: 07/06/1998 13:30:34
 - Estimation: > 05:03 (01:41 + 03:22)
 - Progress: (empty)
- Tape Management:** A section with buttons for various actions:
 - Backup Now
 - Replication
 - 14:14:00 (displayed time)
 - Erase
 - Park
 - Retention

At the bottom of the interface, there are two large buttons: **Restore** and **Playback**.

Tape Information: Indicates the name of the tape, the earliest recorded information on the tape (Start Tape), the last recorded information on the tape (End Time), and status of the tape.

On Tape History: Lists all the alarms that have been detected in this current tape. Select the desired alarmed incident and press the Play button on the upper left corner to view the images from that alarm.

Tape Restoration: Allows the user to restore a period of the image data from the tape to the system for viewing. The user can select the range of time on the tape to restore onto the system.

Restore: copies the data from the tape to the system for viewing. Press this after the range of time has been selected through the scroll bar in the Tape Restoration box.

Playback: plays the recorded image once the images from the tape are restored to the system for viewing

The scroll bar in the Tape Restoration box allows the user to select the start time of restoring. Click on the up and down arrows to adjust the restoring range from the tape.

When the Restore button is pressed, the unit provides an Estimation of the duration of the restoration process (note: the estimated time is not exact and might have variations up to 40% due to the condition of the tape and the starting position). This Estimation displays the time needed to prepare the restoration and the actual restoration process.

When the progress bar turns yellow, the tape is actively restoring the data to the system. To avoid tape damage, do not take out the tape during this time.

Tape Management

The Tape Management box features the following buttons:

Backup Now: This will backup the most current data recorded into the system to the tape immediately. This will erase any other data recorded on this tape.

Replication: This will backup a specified period of information from the hard disk onto a new tape. The range and start time to be recorded onto the tape follows the same process of that of the tape restoration process, except that this is the reverse process the puts the system data into the tape. This will erase any other data recorded on this tape.

Time: This is the current time on the system indicated on the 24:00 system.

Erase: This will completely erase the tape of any recorded data. Once the data is erased from the tape, the data cannot be recovered.

Park: This rotates the tape to an unused area when the tape will not be used for a long period of time. This prevents the tape information from damage due to moisture, dust, etc.

Note: When the tape is full, the system will park the tape automatically. After the system finishes parking the tape, the tape can be safely removed.

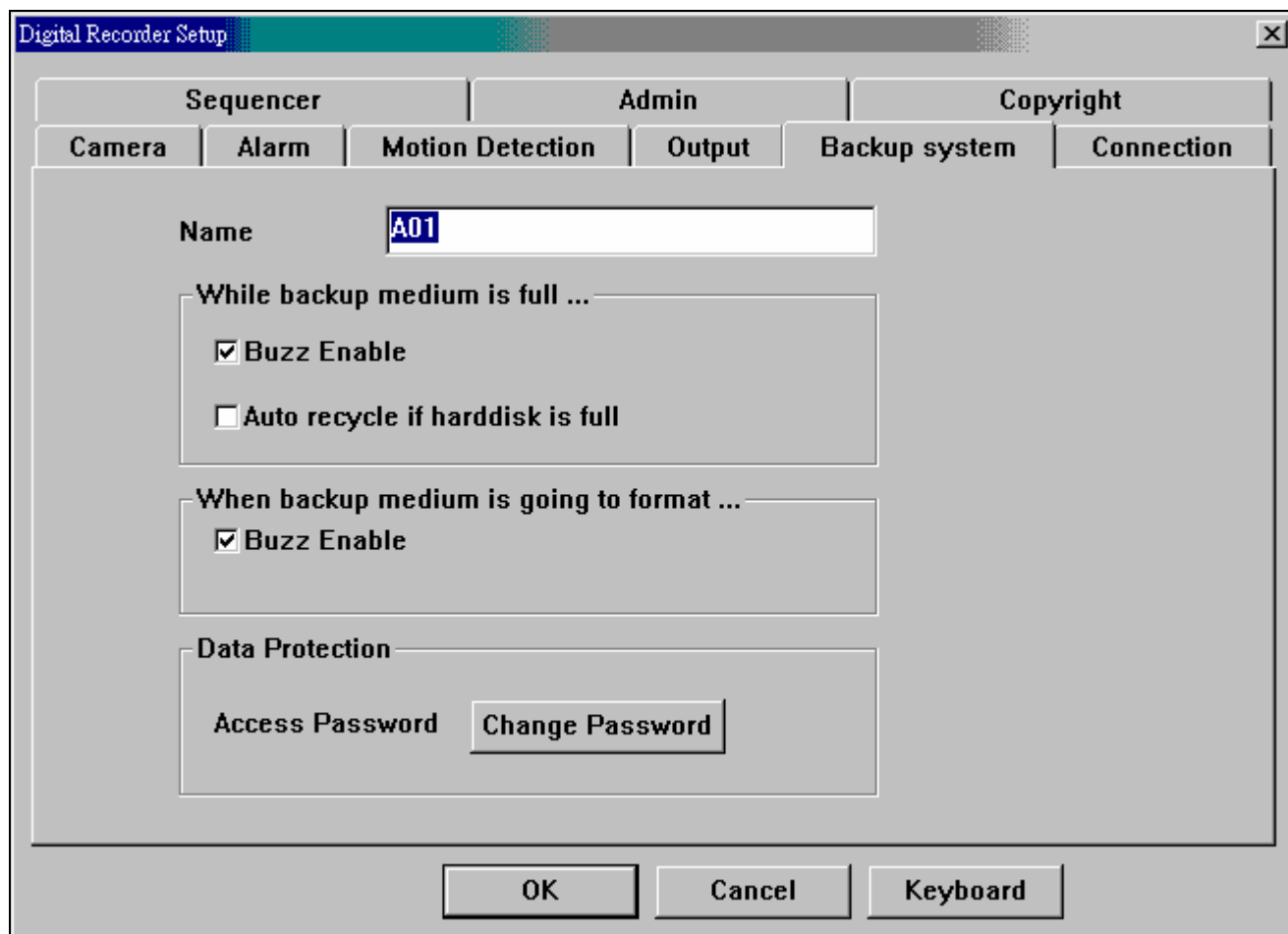
Retension: Removes all slack and tightens the tape by performing a fast-forward and rewind of the tape. If the tape has not been used for some period, we suggest using this function before restoring the tape.

Exiting the Tape Menu:

Short periods of images may be restored as many times as necessary instead of restoring longer periods of images. As long as the user does not exit the Tape menu, the restored images will be kept in the system for viewing. The restored data in the system will be erased when the Tape Menu is exited.

To avoid system reformatting of the tape, remove the tape before leaving the Tape Menu.

The Backup Tab under the Setup Menu



Name: Insert the name of the tape here.

While Backup Medium is full...

Buzz Enable: Selecting this will cause the buzzer to sound when the tape is full and alerts the user to change the tape.

Auto recycle if hard disk is full: If this is checked and the hard drive and tape are both full, the system will erase the tape and backup the data from the beginning.

When the Backup Medium is going to format...

Buzz Enable: Selecting this will cause the buzzer to sound when the tape will be formatted.

Data Protection: On Tape Password: This will place a password on the tape. The new password will take effect on the next tape inserted into the system and the current tape will not be affected. Once the password is set, the system will ask for the password to read the tape.

Backup on Hot Swap Drive (Available only on units with Hot Swap drive)

How to insert the Backup hard disk cartridge



Lift the handle and insert the cartridge until it stops.



Press downwards the handle.



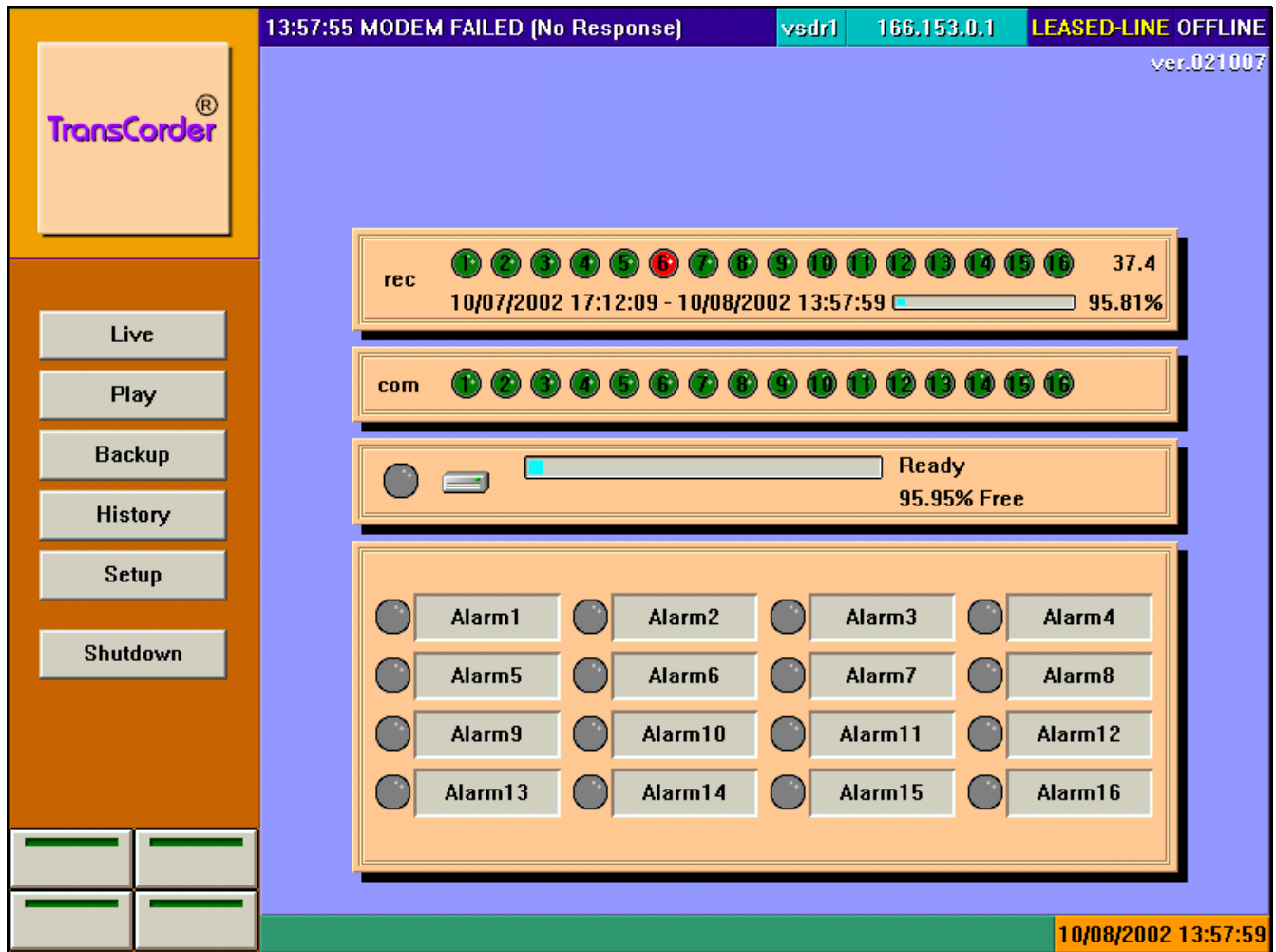
Insert the key and turn left to lock the cartridge. The cartridge will not have power and will not function if it's not locked.

To remove the cartridge, simply unlock it then slide it out.

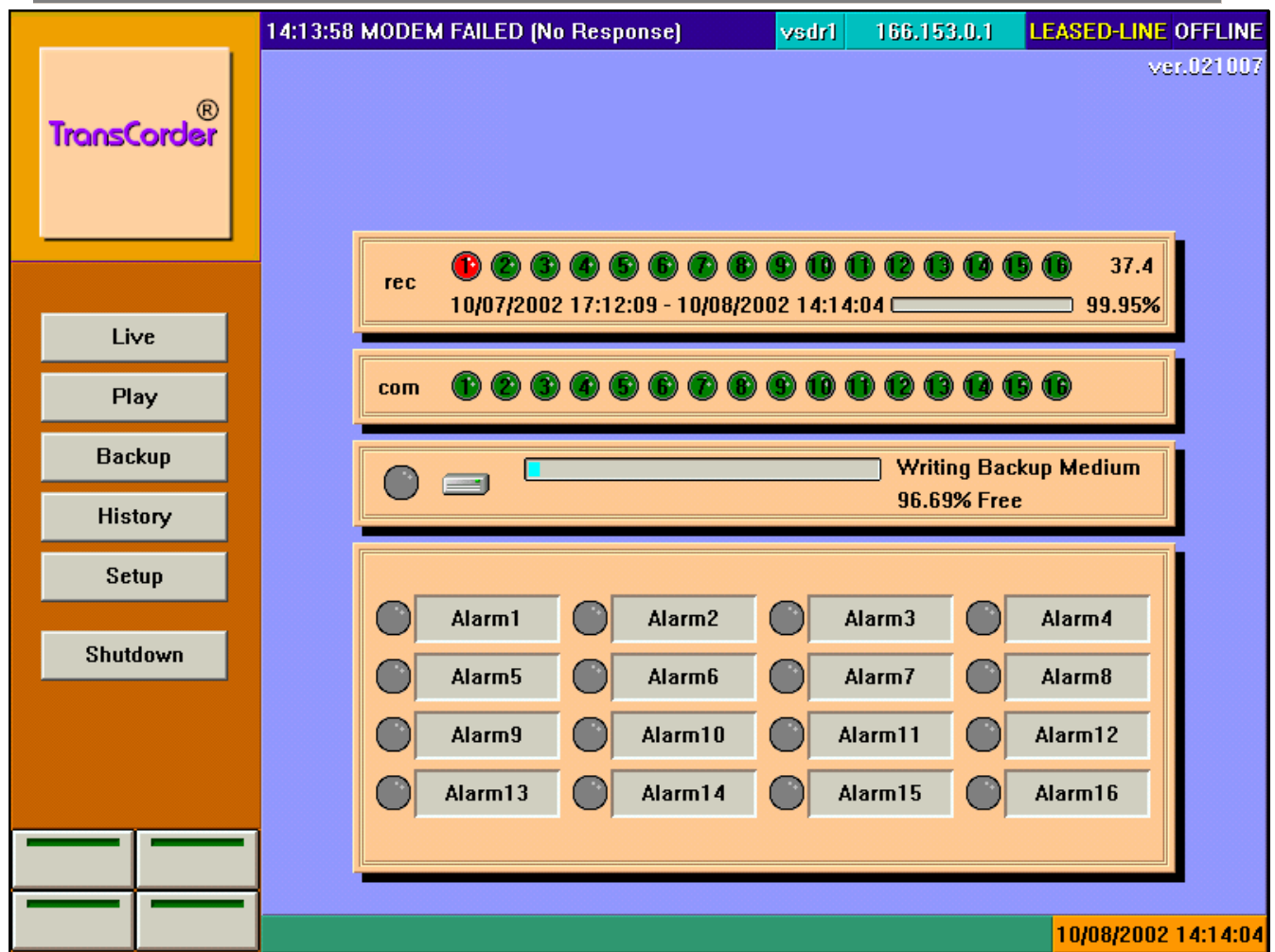
The Hot Swap Hard Disk Status on the Main Screen

When a Hot Swap Hard Disk is loaded into the unit while the main screen is displayed, the unit will automatically attempt to format the Hot Swap Hard Disk unless this unit has used this Hot Swap Hard Disk earlier. After the Hot Swap Hard Disk is formatted, the system will record the most recent data into the Hot Swap Hard Disk. For the Hot Swap Hard Disk that already content recorded data form this unit, the unit will continue to backup data into this Hot Swap Hard Disk.

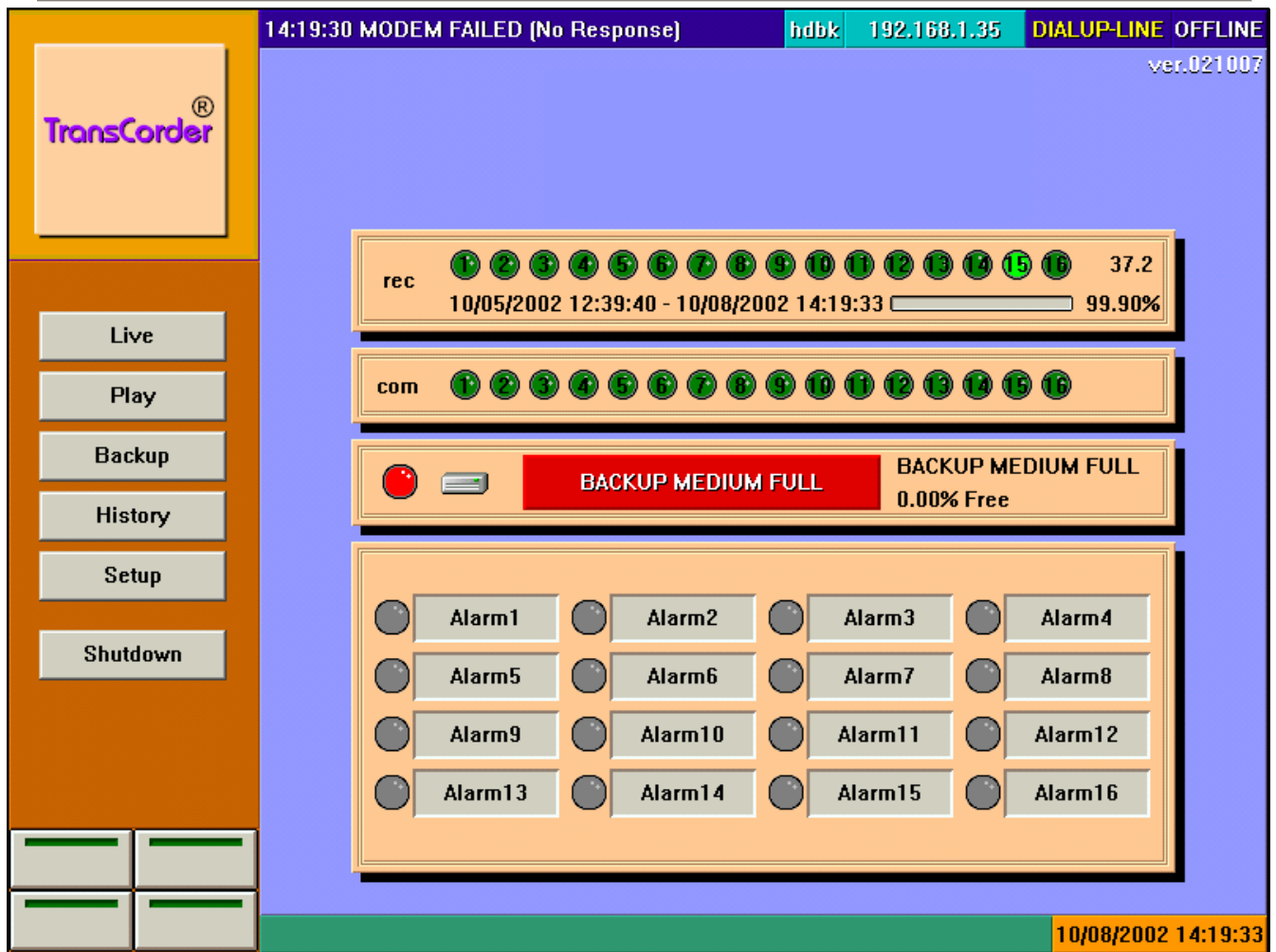
Alarms and alerts regarding this function can be found under the **Backup tab** in the **Setup Menu**.



When the Hot Swap Hard Disk preparation is complete, the Hot Swap Hard Disk status will indicate “Ready” and the percentage of free space left on the Hot Swap Hard Disk. An unused Hot Swap Hard Disk will be indicated at 100.00% Free. At this time, it is safe to remove the Hot Swap Hard Disk from the unit. By entering into **[Backup] & [Park]** the “Unplug or Eject Hardware” screen will be displayed, click on “Stop”, “Ok”, “Ok”, the finally “Close” you can now remove the Backup Hard Disk.



At certain stages, the system will backup the data from the hard drive to the Hot Swap Hard Disk and display the above message. When the bar turns yellow, the system is actively backing up the data from the system to the Hot Swap Hard Disk. Do not remove the Hot Swap Hard Disk from the drive during this process.



In Setup Menu if **Auto recycle** is not checked, the buzzer will sound when the Hot Swap Hard Disk is Full, alerting the user to remove the Hot Swap Hard Disk.

Using a brand new Hard disk as a backup Hard disk

The TransCorder recognizes a removable hard drive as its backup device only if the drive has been partitioned, formatted and has a **VSBACKUP** label name.

IF the TransCorder does not recognize your removable backup hard drive then it needs to be partitioned and formatted. To create a partition on the drive, please run FDISK from the MS-DOS command prompt. After rebooting your system, get into program manager, format your backup drive, and set the Drive Label as **VSBACKUP**.

The following procedure will ensure that you can create a removable backup drive. If you are familiar with the Windows environment you can use other ways to do the same job.

The following procedure is based on that you have a TransCorder which has ONE physical hard drive and partitioned as C:,D:,E: already. The removable backup drive is the hard drive, which is inserted in the cartridge on the system.

- Step 1. Connect a keyboard to the unit.
- Step 2. Press "F3" button on the keyboard to leave TransCorder program and into the Desktop Screen.
- Step 3. Step 2. Click the "Start" button then click the "Run" button and Run
c:\windows\command\fdisk
- Step 4. Enter "Y" to select "Enable large disk support"
- Step 5. Enter "5" to select "Change current fixed disk drive"
- Step 6. Enter "2" to select "Fixed disk drive #2"
- Step 7. Enter "1" to select "Create DOS partition or Logical DOS Drive"
- Step 8. Enter "1" to select "Create Primary DOS partition"
- Step 9. Enter "Y" to select "Maximum size of the primary DOS partition"
- Step 10. Repeat entering "Esc" to get out of the FDISK program
- Step 11. Reboot the TransCorder
- Step 12. Press "F3" button on the keyboard to leave TransCorder program and into the Desktop Screen
- Step 13. Double Click "My Computer" Icon
- Step 14. Double Click "Local Disk (F:)" Icon
- Step 15. Click "Yes" button to format the Hard Drive

- Step 16. Select the "FULL" option in the format type
- Step 17. Enter "VSBACKUP" in the Label text input to set the Hard Drive Label as VSBACKUP
- Step 18. Click "Start" button to proceed
- Step 19. Click "OK" button to proceed
- Step 20. Select Scan disk if this drive is not brand new or if you have time to do the hard disk scan.
- Step 21. Click "Close" button to leave Format program
- Step 22. Reboot the TransCorder

Backup on Hot Swap's Management

For units that contain Hot Swap Hard Drive, to view the Backup menu, click on the button to access the menu.



Backup Information	
Name	Replication Disk
Start Time	09/20/2002 16:09:41
End Time	09/23/2002 19:38:35
State	Mount
Status	

History	
Start Time	Alarm#.Description
09/23/2002 18:38:44	1.Alarm1
09/23/2002 18:38:45	2.Alarm2
09/23/2002 18:38:45	3.Alarm3
09/23/2002 18:38:47	4.Alarm4

Management	
Backup Now	Replication
Erase	Park
Playback	

11:20:41

Name	Replication Disk
Start Time	09/20/2002 16:09:41
End Time	09/23/2002 19:38:35
State	Mount
Status	

Start Time	Alarm#.Description
09/23/2002 18:38:44	1.Alarm1
09/23/2002 18:38:45	2.Alarm2
09/23/2002 18:38:45	3.Alarm3
09/23/2002 18:38:47	4.Alarm4

Backup Information: Indicates the name of the Hot Swap Hard disk (Replication Disk / Backup Disk), the earliest recorded information on the Hot Swap Hard disk (Start Time), the last recorded information on the Hot Swap Hard disk (End Time), and status and state of the Hot Swap Hard disk.

History: Lists all the alarms that have been detected in this current Hot Swap Hard disk. Select the desired alarmed incident and press the Play button on the upper left corner to view the images from that alarm.

Backup Management:

The Backup Management box features the following buttons:

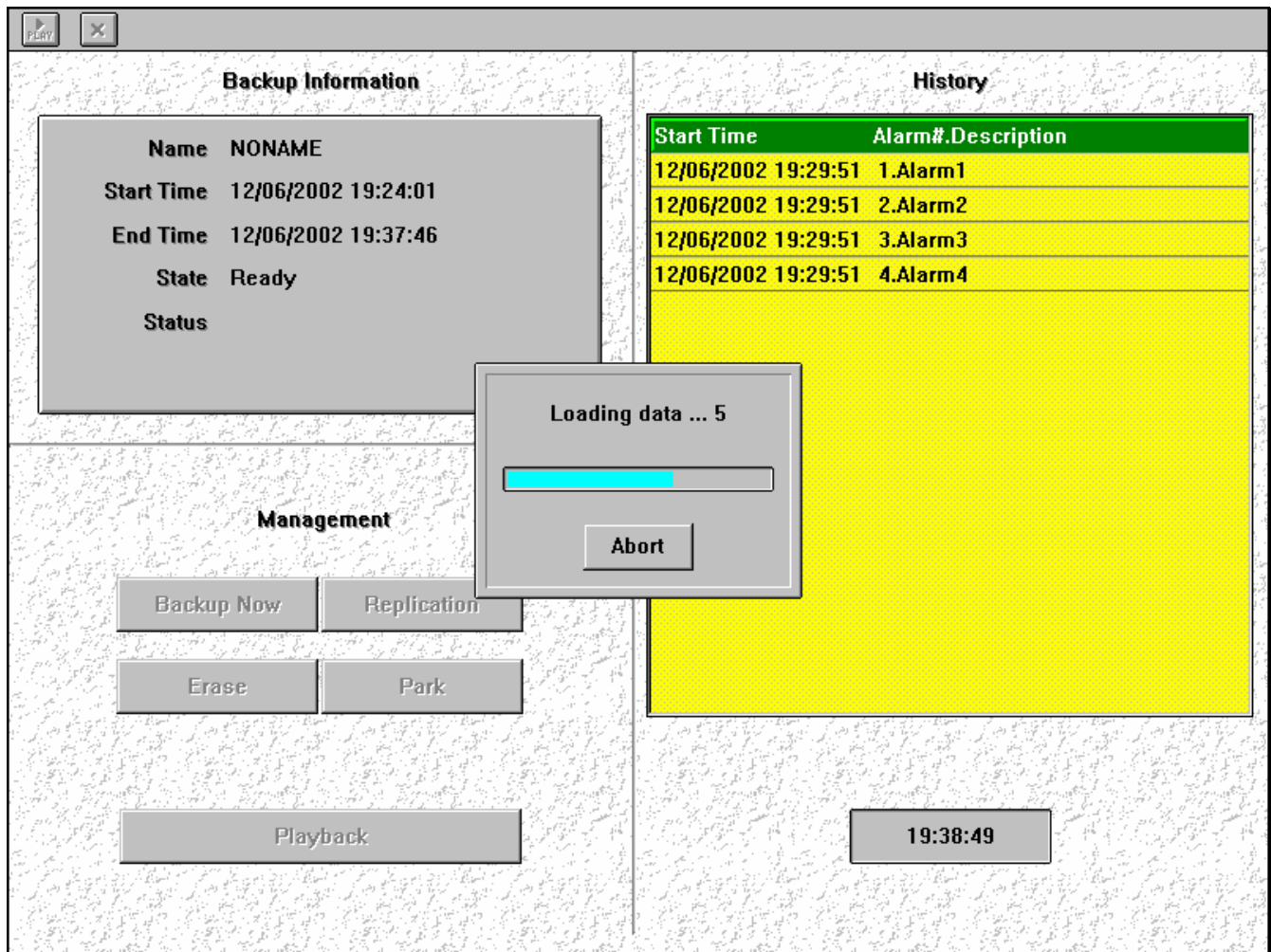
Backup Now: This will backup all the data that never been backup into the Backup Disk immediately.

Replication: This will copy a specified period of information from the system data onto the Replication Disk. When Replication is complete, “mount” will be displayed in the “State” of the backup menu. In the main screen, “Park/unload” will be displayed. To remove the Backup Hard Disk, Please click on “Park” in the Backup menu, then the “Unplug or Eject Hardware” screen will be displayed, click on “Stop”, “OK”, “OK” then finally “Close” you can Now remove the Backup Hard Disk.

Erase: This will completely erase the Hot Swap Hard Disk of any recorded data. Once the data is erased from the Hot Swap Hard Disk, the data cannot be recovered.

As long as you press the “Erase” button, the Erasing processed cannot be stopped.

Park: Make sure park the Hot Swap Hard Disk before you remove it from the unit.

Playback:

When playing back in the Backup Menu, the loading data progress will take approx. 6 minutes for a full 80G backup hard disk. The user has the option of stopping this loading data progress by pressing on the Abort button.

Exiting the Backup Menu:

- A. Short periods of images may be restored as many times as necessary instead of restoring longer periods of images. As long as the user does not exit the Backup menu, the restored images will be kept in the system for viewing. The restored data in the system will be erased when the Backup Menu is exited.
- B. The Backup process will be stopped when the Backup Menu is exited.

The Backup Tab under the Setup Menu

The screenshot shows the 'Digital Recorder Setup' dialog box with the 'Backup System' tab selected. The 'Medium Name' field contains 'NONAME'. Under 'Backup mode', 'Cyclic Backup' is unchecked and 'Alert' is checked. Under 'While backup medium is full ...', 'Alert' is checked and 'Auto Recycle' is unchecked. Under 'When backup medium is going to format ...', 'Alert' is checked. At the bottom are 'OK', 'Cancel', and 'Keyboard' buttons.

Sequencer		Admin		Copyright	
Camera	Alarm	Motion Detection	Output	Backup System	Connection
<p>Medium Name <input type="text" value="NONAME"/></p>					
<p>Backup mode</p> <p><input type="checkbox"/> Cyclic Backup</p>			<p>When backup medium is going to format ...</p> <p><input checked="" type="checkbox"/> Alert</p>		
<p>While backup medium is full ...</p> <p><input checked="" type="checkbox"/> Alert</p> <p><input type="checkbox"/> Auto Recycle</p>					
<p>OK Cancel Keyboard</p>					

Name: Insert the name of the Hot Swap Hard Disk here.

Backup Mode

Cyclic Backup: If this is checked and the Hot Swap Hard Disk is full, the system will backup and overwrite the data from the beginning.

While Backup Medium is full....

Alert: Selecting this will cause the buzzer to sound when the Hot Swap Hard Disk is full and alerts the user to change Hot Swap Hard Disk.

Auto recycle: If this is checked and the built in Hard Drive and Hot Swap Hard Disk are both full, the system will backup and overwrite the data from the beginning.

When the Backup Medium is going to format...

Alert: Selecting this will cause the buzzer to sound when the Hot Swap Hard Disk will be formatted.

Chapter 6 The History Menu

To view the Alarm History menu, click on the **History** button to access the menu. A System Operator or Administrator password is required to enter this menu (see Setup menu for password configuration).

				
Log#	Start Time	Alarm#.Description	End Time	Ack Time
4	2002/12/06 19:29:51	Alarm4	12/06 19:29:59	12/06 19:29:58
3	2002/12/06 19:29:51	Alarm3	12/06 19:29:59	12/06 19:29:58
2	2002/12/06 19:29:51	Alarm2	12/06 19:29:58	12/06 19:29:58
1	2002/12/06 19:29:51	Alarm1	12/06 19:29:58	12/06 19:29:58
Ready				
				0 4

The Alarm History menu keeps a log of all recorded incidents triggered by Alarm or Motion Detection. Selecting a log with the mouse enables the user to playback the incident.

The Alarm history fields:

Log #: Log entry number as recorded by the system. The most recent log is placed at the top of the screen.

Start Time: Time when the alarm was activated.

Alarm # Description: The alarm input triggered for the recorded event.

End Time: Time when the alarm ended.

Ack Time: Short for “Acknowledged Time.” When the alarm is activated, an alert occurs on the unit until someone responds to the alert. When someone responds to the alert (clicks on the flashing alarm), the time of the response is recorded under this field. If the alarm ends before anyone responds to the alert, this entry is left blank in the log.

The Alarm history toolbar



Click to view the deleted logs from the Alarm History.

Under the Deleted Logs toolbar are the following buttons:



Click to undelete a log and return it to the history log list.



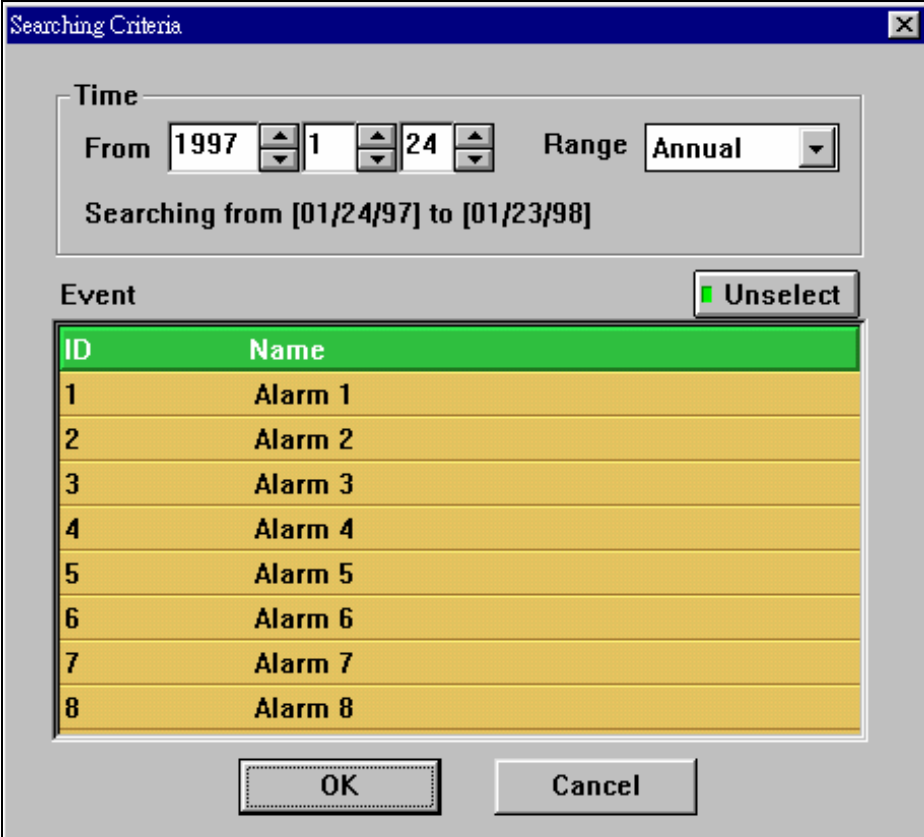
Click to undelete all logs and return them to the history log list



Click to empty the deleted logs from the system. This requires an administrator password and once emptied, these logs cannot be retrieved.



Click to activate the searching criteria box to find alarm logs by date



The dialog box titled "Searching Criteria" contains the following elements:

- Time section:**
 - From:** A date picker showing 1997, 1, and 24.
 - Range:** A dropdown menu set to "Annual".
 - Summary:** "Searching from [01/24/97] to [01/23/98]"
- Event section:**
 - A checkbox labeled "Unselect" (checked).
 - A table with 2 columns: ID and Name.
- Buttons:** "OK" and "Cancel" at the bottom.

ID	Name
1	Alarm 1
2	Alarm 2
3	Alarm 3
4	Alarm 4
5	Alarm 5
6	Alarm 6
7	Alarm 7
8	Alarm 8

Adjust the starting time and date by pressing the up and down buttons and determine the range (daily, weekly, monthly, quarterly, or yearly) and press the OK button to display the results of the search.



Click to activate the playback function for a selected log.



Click to delete the selected log.




Click to delete all the listed logs.



Click to exit the Alarm History menu and return to the Main Screen.

Chapter 7 The Setup Menu

To view the Setup menu, click on the  button to access the menu. The system will ask for a password. If entering the setup function for the first time, the default password for the Administrator is 99999999. This password must be entered within 60 seconds either by entering the password with an attached keyboard plugged into the back of the unit or entering the password through the on-screen keypad located in the lower right corner.

The on-screen keypad:



Click on this button to expand the keypad into a keyboard. When the keyboard is expanded, click on the button to contract the keyboard into a keypad again.



The user can enter letters and numbers through this onscreen keyboard as if a keyboard were inserted into the back of the unit. The user can enter names for cameras and locations through this on-screen keyboard at times when an actual keyboard is not plugged into the unit.

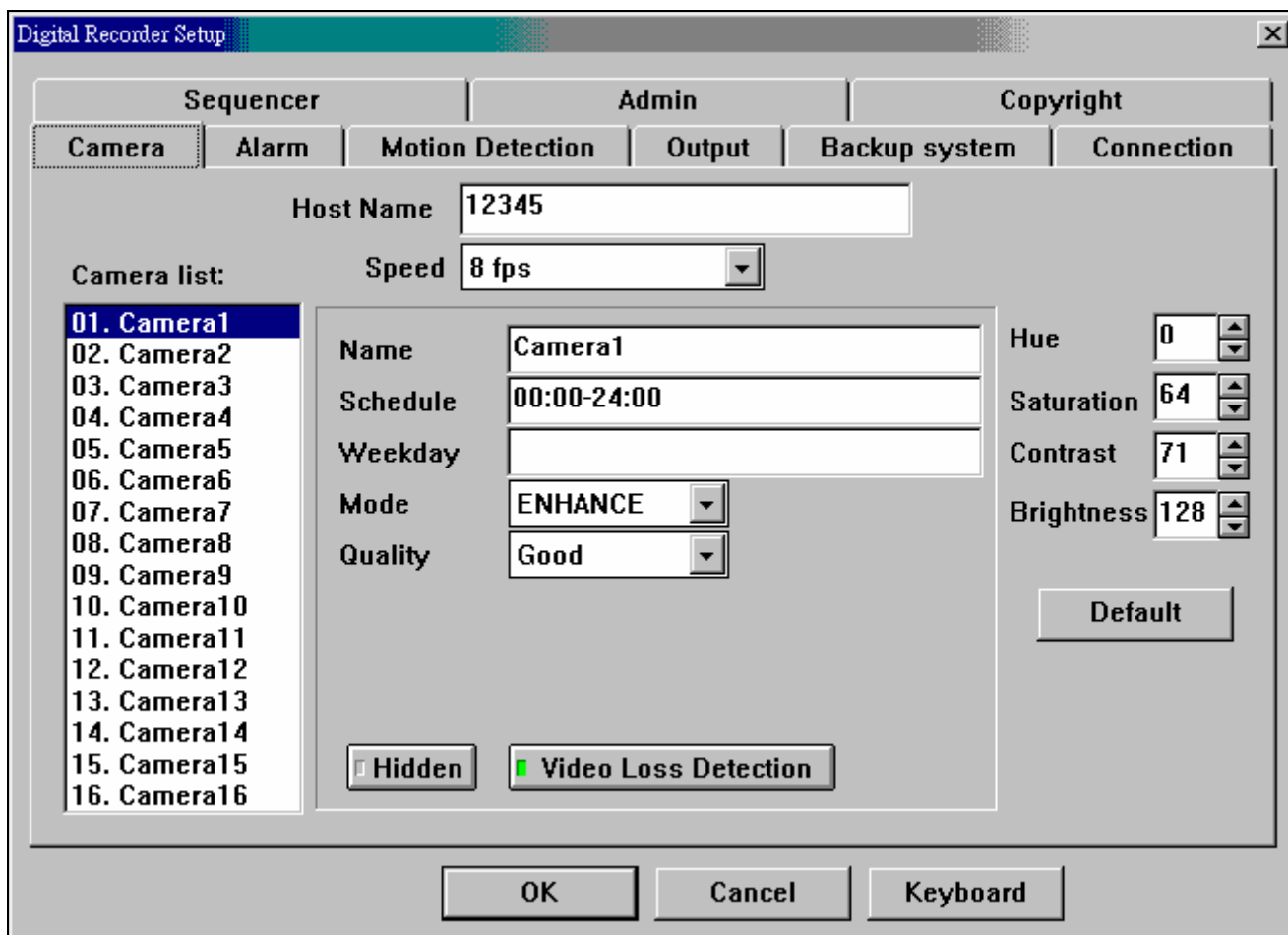
To create a comma (,) using the on-screen keyboard, press CAPS LOCK on the screen and press the (<) key to create the comma.



Click on the X to remove the keyboard from the screen.

Camera Tab Setup

Select the Camera tab to display the settings for the cameras for the TransCorder.



(The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 cameras on the camera list)

Host name: This is the name of the unit.

Speed: This is the Recording speed of the unit, listed in frames per second (fps). This speed is reflected on the main status display screen. The frames per second on this unit is divided by the number of active cameras.

For example, if a unit is running at 20 frames per second and there are five active cameras, there will be 4 frames for each camera captured per second.

Speed Individual Setting (dropdown menu): With this setting, each active camera on this unit will record at a speed independent of the other cameras. If this entry is selected under the speed box, an additional box **Speed** (dropdown menu) will appear for each individual camera that will allow the user to customize the speed for that camera.

Name:

This is the name of the camera or location for display on the monitor.

Scheduled:

This field indicates continuous recording time for the camera. The default is 00:00-24:00 which indicates a 24 hour period recording time.

To change the continuous recording time for a particular camera, change the entry. For example, to record from 2pm to 4pm, type: "14:00-16:00".

To list more than one recording time, insert a comma (,) to indicate breaks in recording time. For example, to record from 10am to 2pm and from 4pm to 10pm on a camera, type: "10:00-14:00, 16:00-22:00".

To record times that would go past midnight (24:00), break the scheduled recording time into two parts. For example to record from 10pm to 6am, type: "22:00-24:00, 00:00-06:00".

If you leave the Scheduled Recording Time entry blank for a camera, the camera will only record if it is set up to record by trigger through alarm or motion detection. If camera inputs will not be used, erase the scheduled recording times from the unused cameras to ensure that it will not record anything into the unit and take up hard drive space with blank recording from unused camera inputs.

Weekday:

Use this field if you want a camera to record on certain days of the week.

Enter: 1 = Monday
 2 = Tuesday
 3 = Wednesday
 4 = Thursday
 5 = Friday
 6 = Saturday
 0 = Sunday

For example, if you want a camera to record on Mondays, Wednesdays and Fridays, type in the field: “1, 3, 5”. Separate the days by using commas.

If this field is left blank, then the camera records for all days according to the schedule in the Scheduled Recording Time field.

Note: The weekday setting for cameras cannot, for example, record events on Monday from 10am to 2pm and then on Tuesday from 1pm to 4pm. The weekday settings will use the same scheduled recording time of all the days indicated in this field.

Mode:

This selects the type of compression for the camera:

Normal mode (Wavelet compression): Normal mode produces better image quality but reduces the storage time. If the camera uses the Pan/Tilt/Zoom feature, then Normal mode must be used.

Enhance mode (Modified JPEG compression): Enhanced mode uses Telexper’s proprietary compression and can store 2 to 3 times as much as the Normal mode.

Quality:

Select the image quality from Low, Fair, Good, Better, or Best. More space on the hard drive is used with higher quality images.

Hidden:

Select this to hide the individual camera from the live screen. If a camera is hidden, that means that the camera will not show up on the live screen display and the button for the camera on the live screen toolbar will be grayed out, indicating that the camera cannot be activated. This will not affect the recording of the camera into the hard drive.

Video Loss Detection:

When the Video Loss Detection is active, the system will automatically detect cameras that are not properly connected to the unit. If video signal loss is detected, the corresponding camera digital light will turn red.

If the Scheduled Recording Time field contains a time, then the unit assumes that the camera position should have a camera attached to the input and will likewise appear as red under Video Loss Detection.

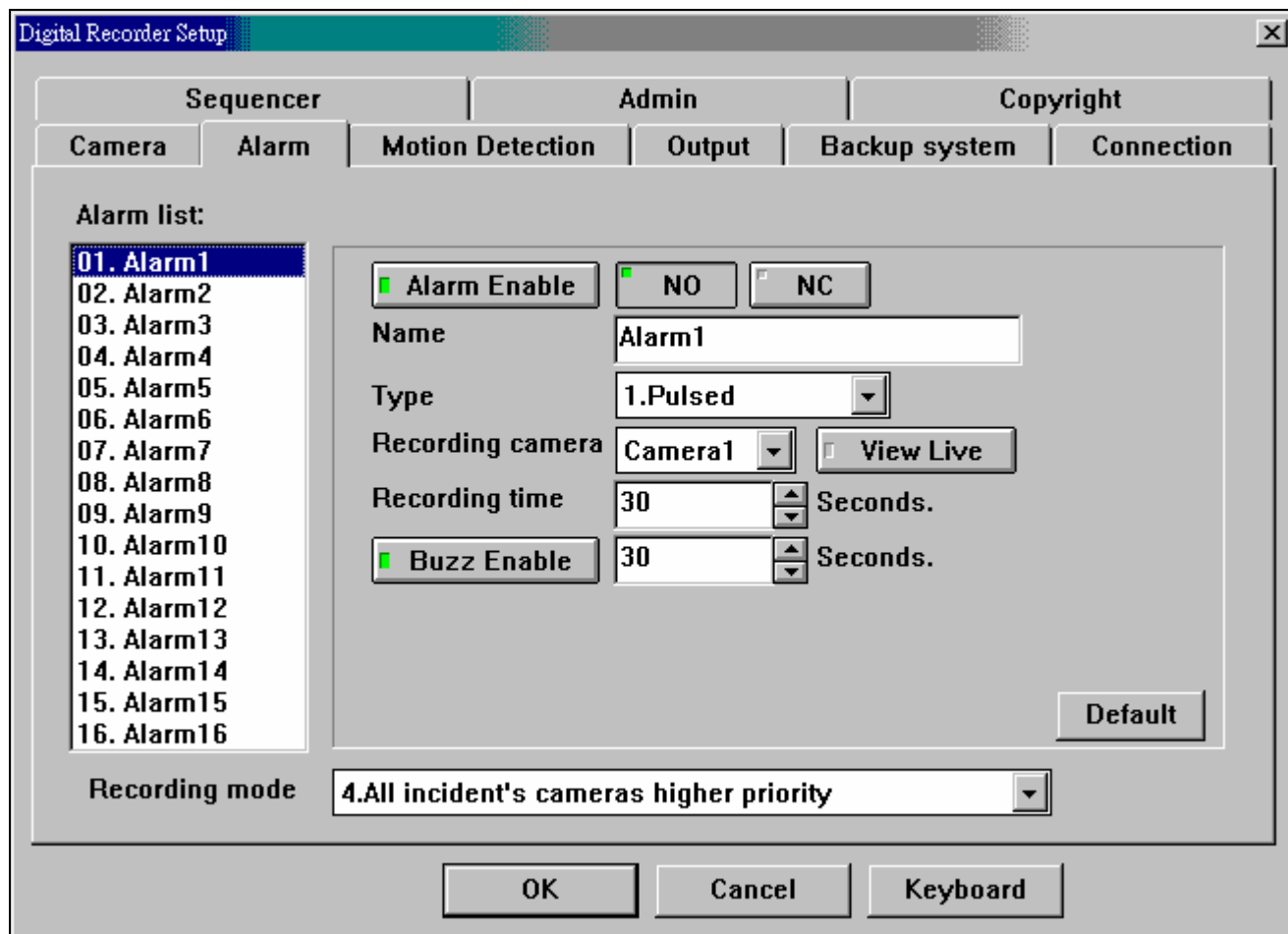
On this

Hue	0	▲▼
Saturation	64	▲▼
Contrast	71	▲▼
Brightness	128	▲▼

panel, adjust the color, brightness, and contrast of a specific camera chosen.

Alarm Tab Setup

This Alarm tab setup works in conjunction with the alarm inputs located at the back of our standard units. Select the **Alarm tab** to display the settings for the alarm inputs for the TransCorder.



(The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 alarms on the alarm list)

Each Alarm can be programmed with the following features on the Alarm tab:

Alarm Enable:

Click to enable or disable the alarm function.

NO (Normal Open):

Select “Normal Open” as the Alarm type. “Normal Open” means that the alarm input is triggered when there is contact between the connections.

NC (Normal Close):

Select “Normal Close” as the Alarm type. “Normal Close” means that the alarm input is triggered when there is no longer contact between the connections.

Name: The name for the Alarm input. The input can be renamed using a keyboard.

Type: Use to select either pulsed or latched input.

Pulsed: The recording time depends on the information specified on this menu.

Latched: The recording time depends on the alarm's sensor. If the user does not acknowledge the alarm, the recording will return to normal recording speed when the alarm time expires.

Recording camera: Select the camera that corresponds with the alarm input. The default setting is that Alarm input 1 corresponds to Camera input 1.

View Live: If this function is ON and an alarm occurs, the system will switch to the live mode of the Camera corresponding to the Alarm input immediately.

Recording time: This is time that the unit will record (in seconds) the alarmed event before alarm ceases. Maximum recording time is 999 seconds.

Buzz Enable: In this function is ON, an alarm buzzer attached to the alarm inputs will sound. Adjust the buzzer time to indicate the length of time you want the buzzer to sound.

Default: Select to restore the default values of the system.

Recording mode: Use to select the alarm recording mode:

Record last incident's camera only: Record only the last-alarmed camera. The last triggered alarm camera will be the only one recording.

Record incident's camera only: Record all the alarmed cameras. Only the cameras with triggered alarms will be recording.

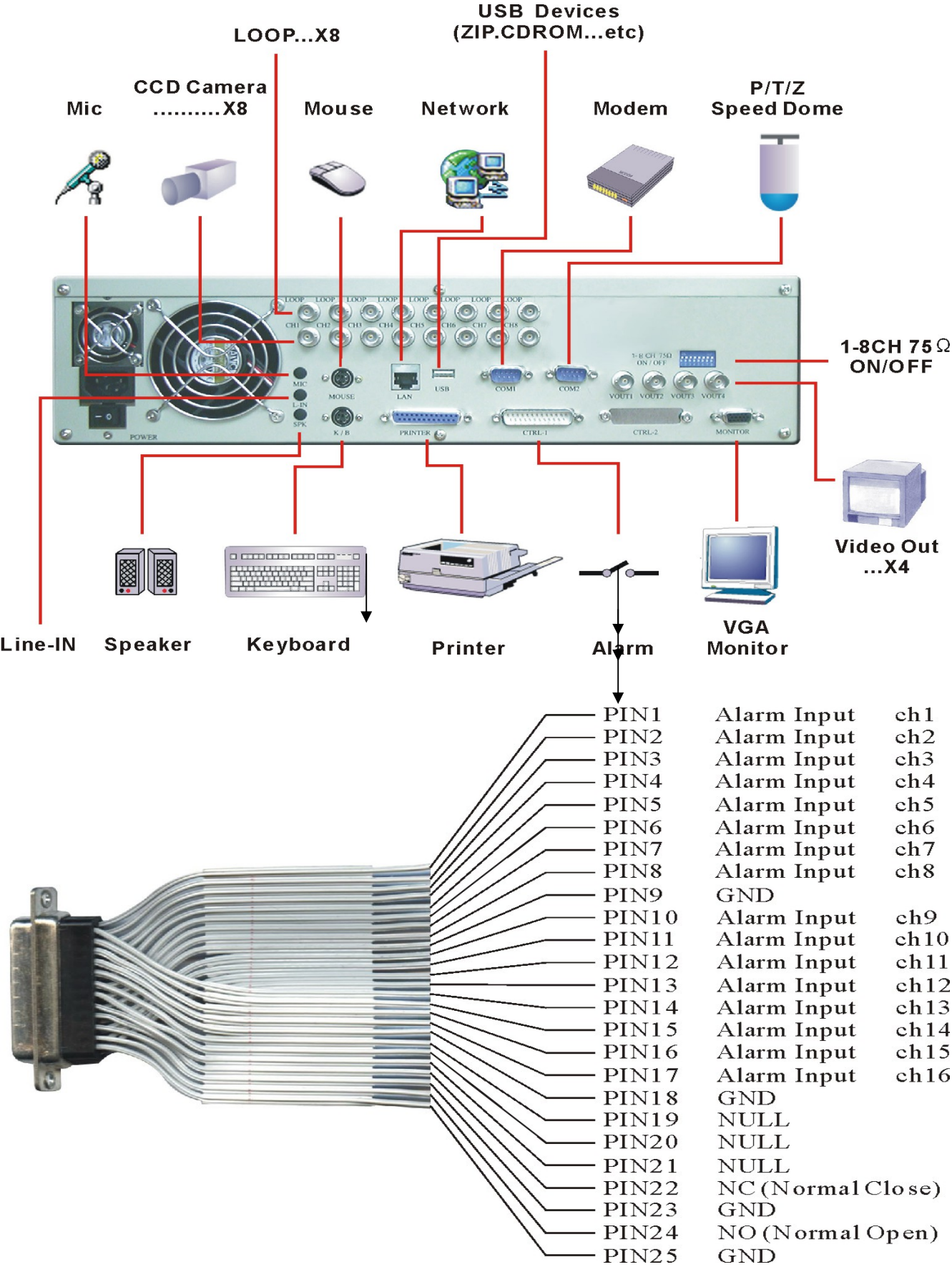
Last incident's camera higher priority: All the cameras will continue to record, but the last triggered alarm camera will record at a faster speed. The other cameras will record at a lower rate.

Incident's camera higher priority: All the cameras will continue to record, but the all the alarmed cameras will record at a faster speed. The other cameras will record at a lower rate.

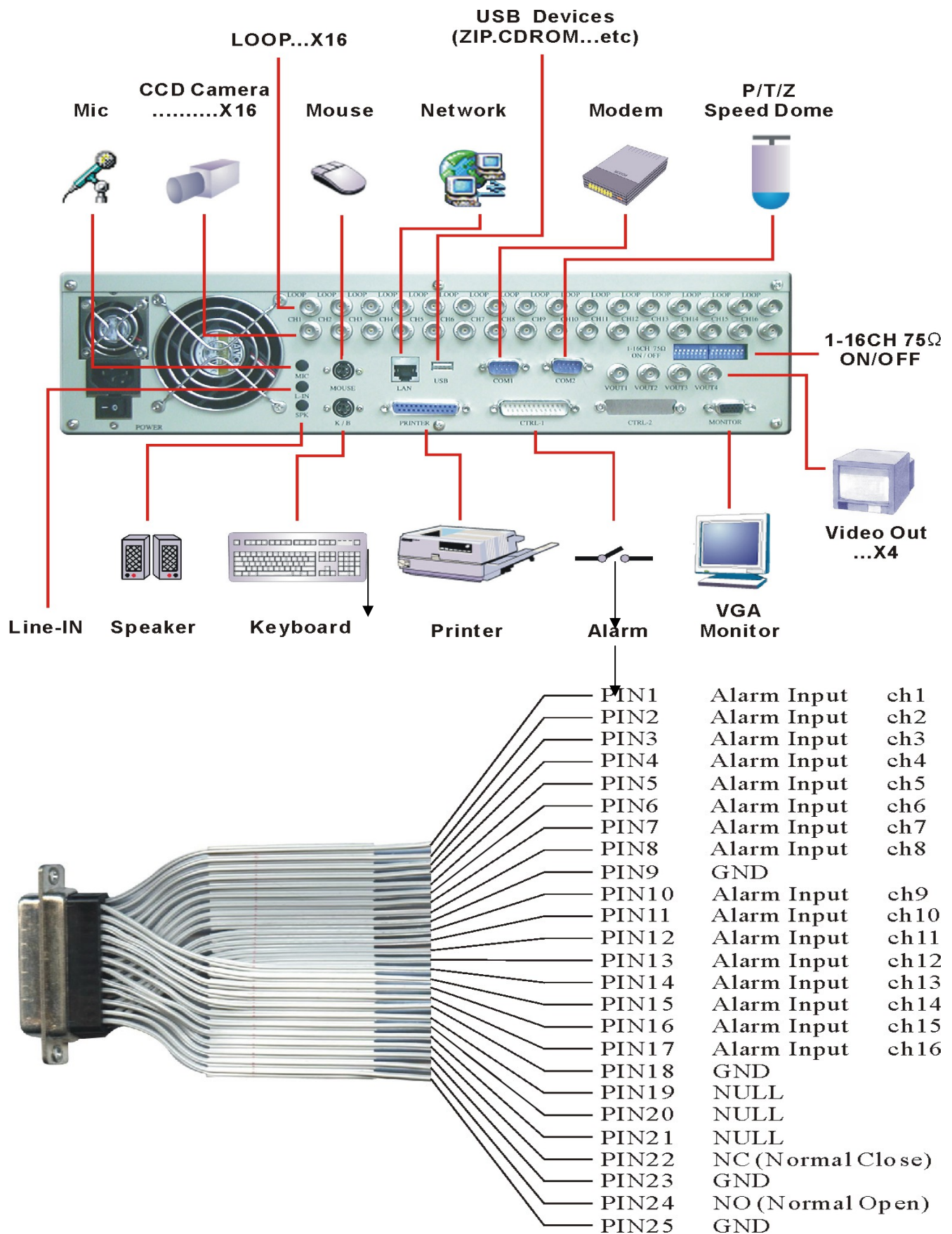
The alarmed events will be logged into the alarm history menu.

This is the diagram of the alarm inputs:

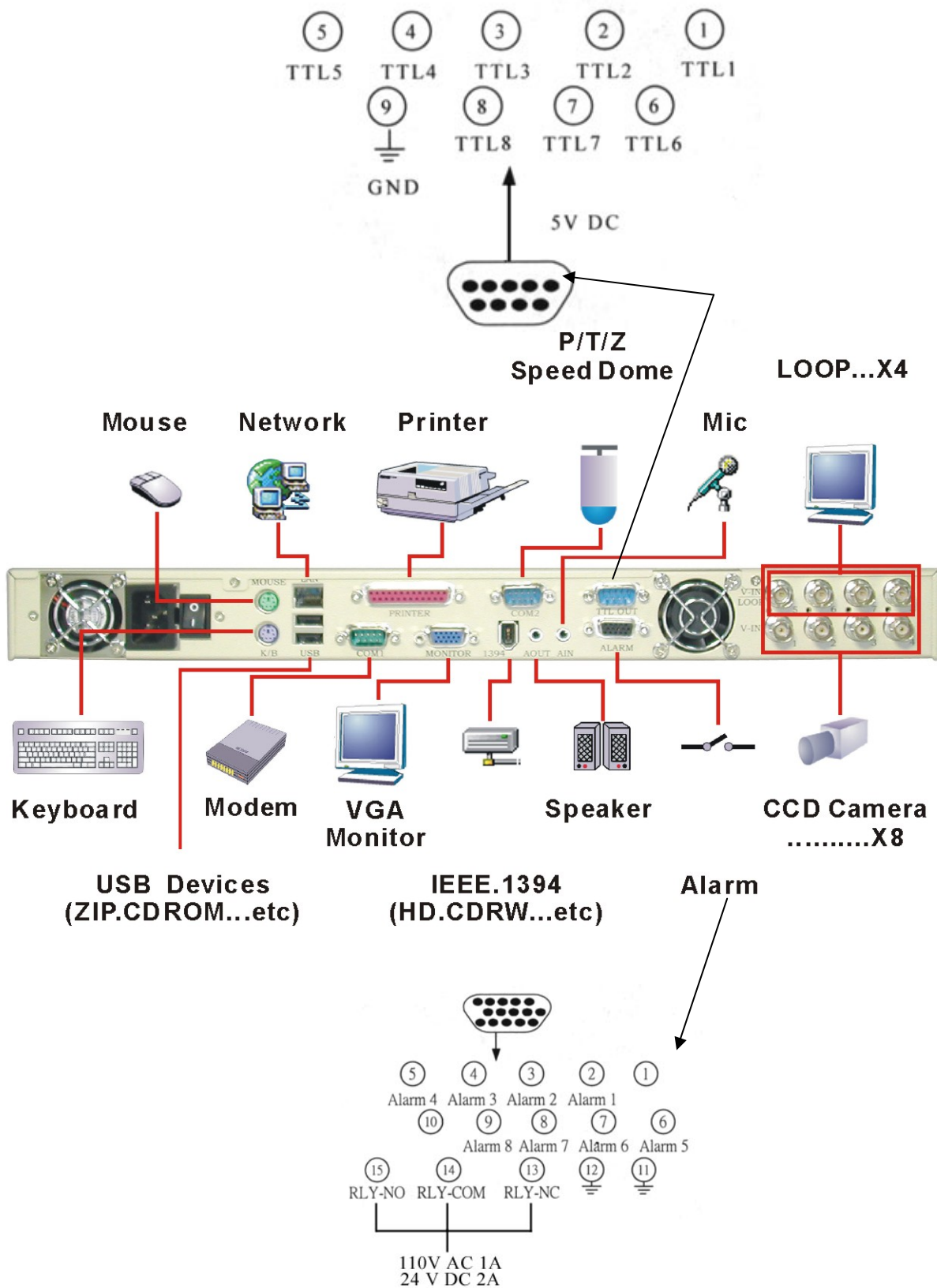
TransCorder 8 Channel model



TransCorder 16 Channel model



TransCorder 4/8channel slim size model



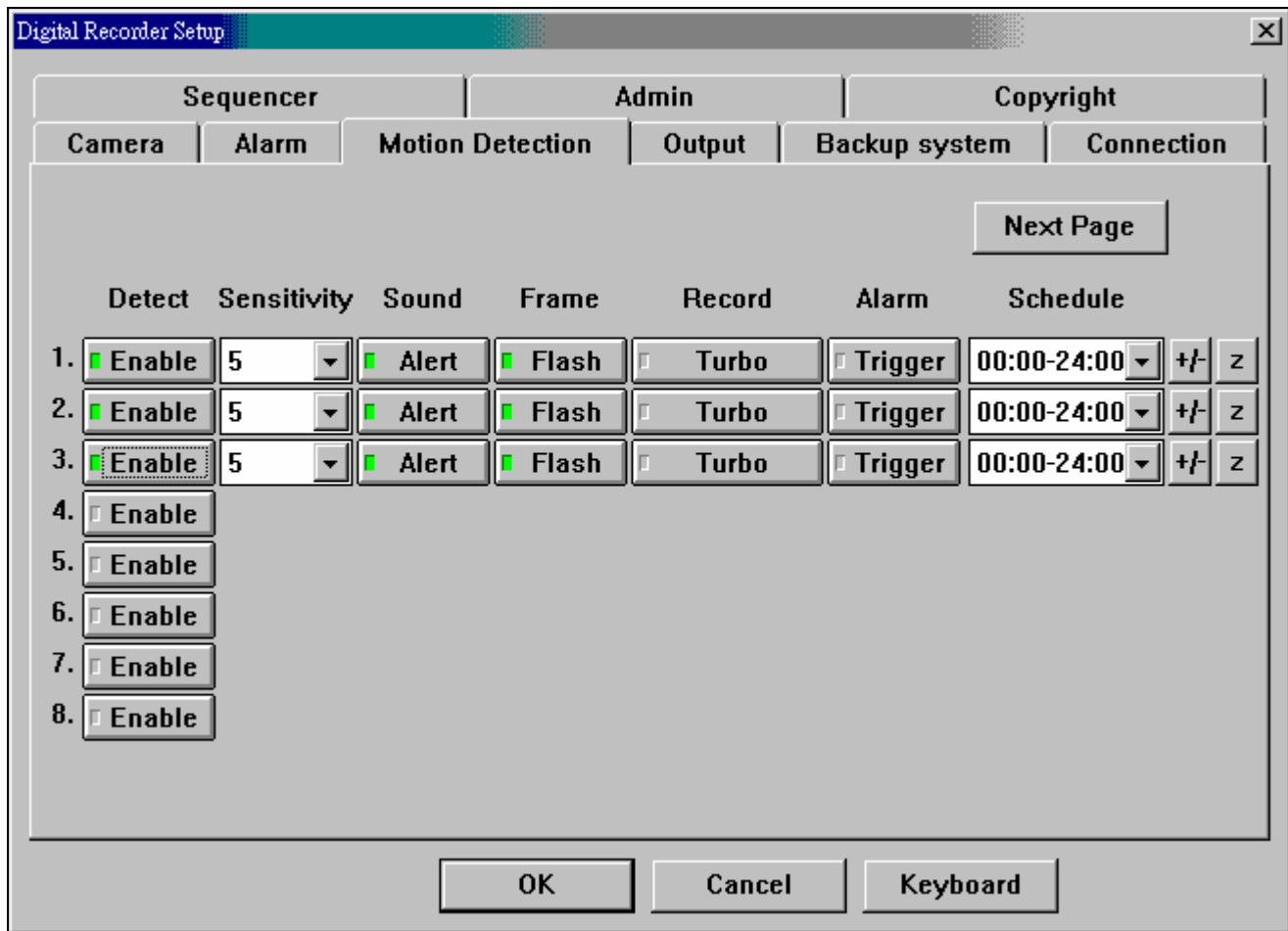
Detailed pin definition is described as below: For 4 channel machine you will use pin 1 to 5.

Pin 1: Not use	Pin 6: Alarm 5 zone input	pin 11:GND
Pin 2: Alarm 1 zone input	Pin 7: Alarm 6 zone input	Pin 12:GND
Pin 3: Alarm 2 zone input	Pin 8: Alarm 7 zone input	Pin 13:Relay output (NC)
Pin 4: Alarm 3 zone input	Pin 9: Alarm 10 zone input	Pin 14: Relay Common
Pin 5: Alarm 4 zone input	Pin 10: Not use	Pin 15: Relay output (NO)

Note: The input is a relay contact input, so no power source can be added to the alarm-input zone.

Motion Detection Tab Setup

Select the **Motion Detection** tab to display the settings for the motion detection for the TransCorder.



(The above illustration shows 16 channel model. For 4/8 channel models, there will be 4/8 motion detectors displayed.)

The user can program the motion detection with the following features under the motion detection tab:

Detect: Select the Enable button to turn ON (or OFF) motion detection for a camera.


Sensitivity: Select to determine the sensitivity of the motion you which to use for the camera. A higher sensitivity value will mean that less movement is required to trigger the motion detection alarm.

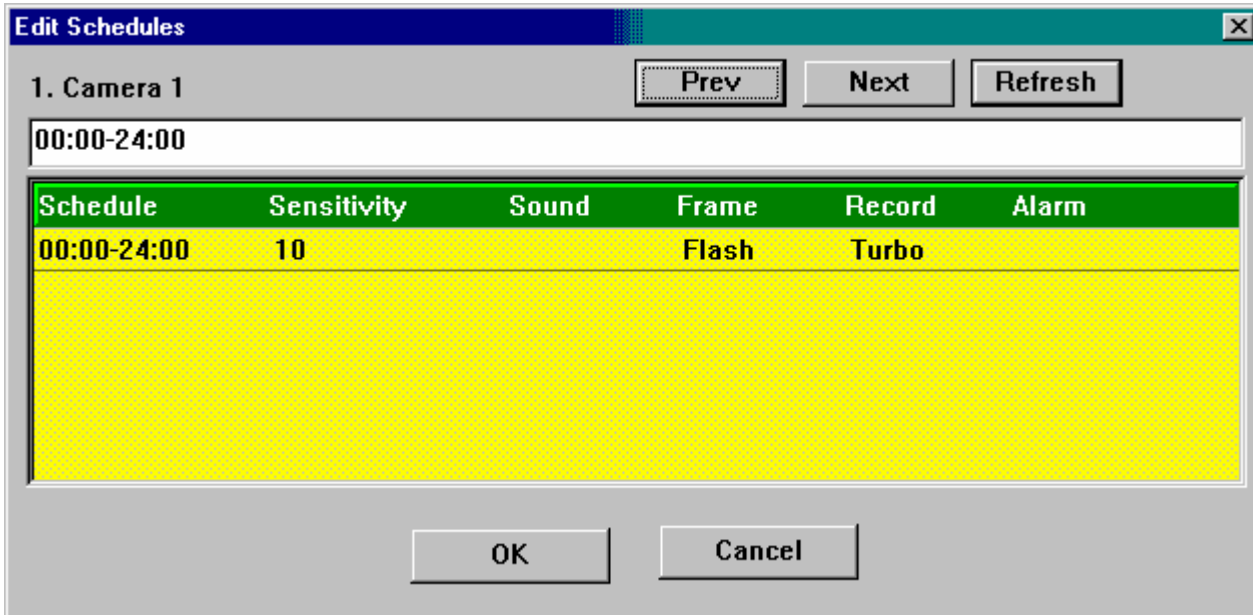
Sound: Select the Alert button for the unit to sound when the motion detection is triggered.

Frame: Select the Flash button for the camera to turn red in the live view display when motion detection is triggered.

Record: Select the Turbo button to double the recording speed of the camera when motion detection is triggered. This will slow down other cameras in order to increase the speed of this triggered camera.

Alarm: Select the Trigger button in order to register motion detection events into the History event log (see The History Menu, Chapter 6).

Schedule: This indicates when Motion Detection is active for this camera. The  button next to this field will allow you to change the schedule



Schedule	Sensitivity	Sound	Frame	Record	Alarm
00:00-24:00	10		Flash	Turbo	

The user can enter more than one schedule for each camera by using a comma (,) to separate the time schedules. (For example: 0:00-10:00, 11:00-14:00). Each time range separated by a comma will appear as a selection under the Schedule field under the Motion Detection tab Setup.

Previous: Moves selection to previous camera

Next: Moves selection to the next camera

Refresh: Accept the changes to the motion detection schedule

Activate Motion Detection zones

Select the “Z” button to activate Motion Detection zones.



The user can create motion detection zones to specify that certain areas of the camera image would trigger the motion detection alert instead of the entire camera. Up to four zones can be created in each camera. (Note: the image is still when you are creating zones using this feature.)



When selected, use the arrow to select a zone.



When selected, use the mouse to create a zone by clicking a point on the screen and dragging the cursor to create the zone.



When selected, click on an existing motion detection zone to delete it.

Transmission Connection Tab Setup

Select the Connection tab to display the settings for remote modem transmission for the TransCorder.

The screenshot shows the 'Digital Recorder Setup' window with the 'Connection' tab selected. The window has a title bar with a close button. Below the title bar are three main tabs: 'Sequencer', 'Admin', and 'Copyright'. Under 'Admin', there are sub-tabs: 'Camera', 'Alarm', 'Motion Detection', 'Output', 'Backup system', and 'Connection'. The 'Connection' sub-tab is active, showing the following settings:

- Comport :** A dropdown menu showing 'com1'.
- Dial :** Two radio buttons: 'Tone' (selected) and 'Pulse'.
- Check DialTone :** Two radio buttons: 'On' (selected) and 'Off'.
- Baudrate :** A dropdown menu showing '115200'.
- Modem Sound :** Two radio buttons: 'On' and 'Off' (selected).
- Modem Type :** A dropdown menu showing '0'.
- Line Type :** Two radio buttons: 'Dialup Line' (selected) and 'Leased Line'.
- Number of rings to answer:** A dropdown menu showing '2'.
- Period of line-checking:** A dropdown menu showing '0' followed by the text 'minutes'.
- Default:** A button next to the 'Period of line-checking' dropdown.

At the bottom of the window are three buttons: 'OK', 'Cancel', and 'Keyboard'.

The user can adjust the settings for remote viewing for modem connection with the following settings:

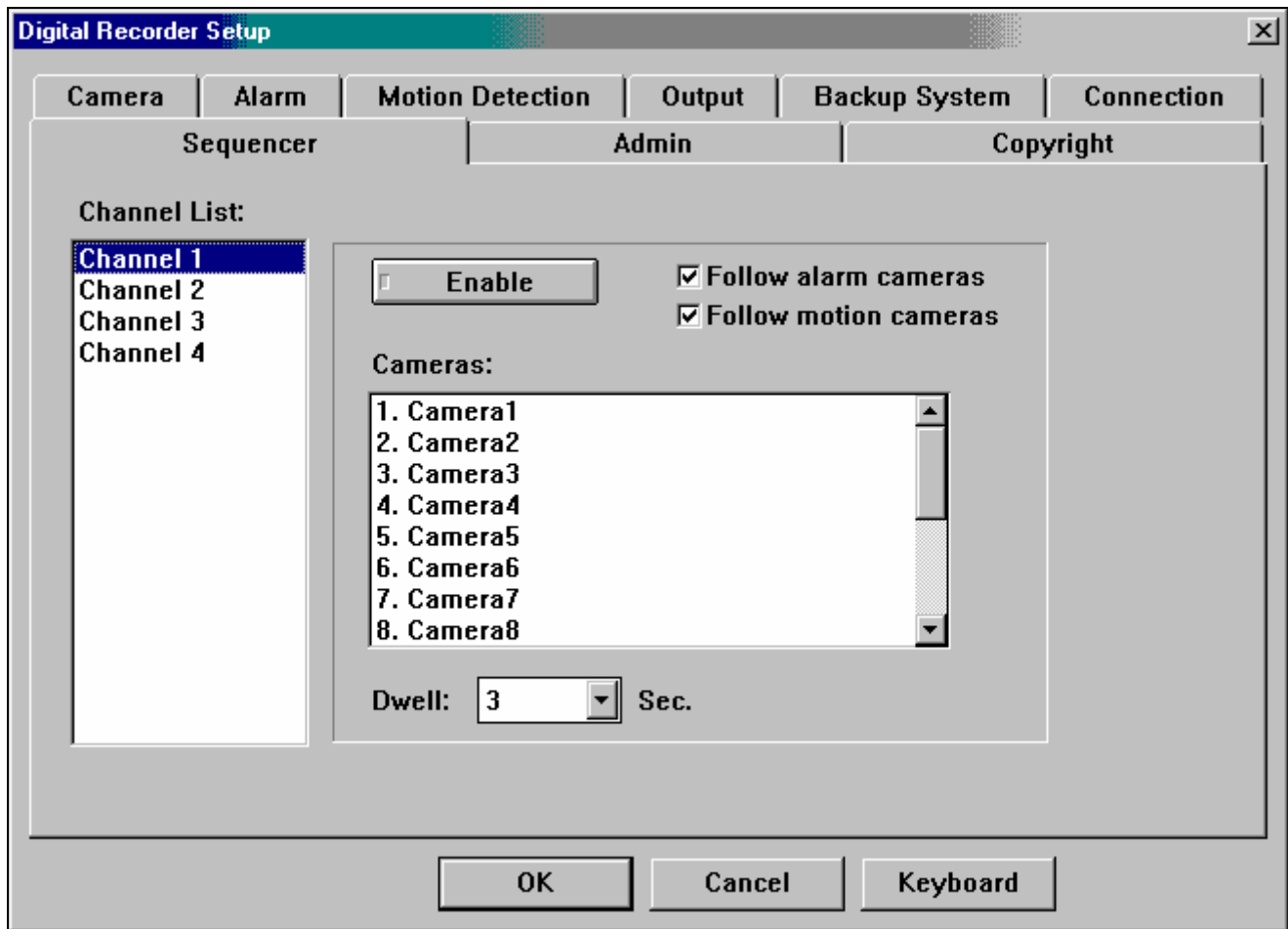
- Comport:** Select the modem connection port.
- Dial:** Depending on the dialing system in the area, select Tone or Pulse.
- Check DialTone:** If ON is selected, the system will check if the dial tone is present before it dials the telephone number.
- Baudrate:** Select the modem speed. Speed will be limited by the maximum connection allowed by phone line.
- Modem Sound:** To turn on/off the modem sounds during the dialing process.
- Modem Type:** The TransCorder will auto-detect the value. If system cannot auto-detect the value, set the value to 0.
- Line Type:** Select either "Dialup line" or "Leased Line." Leased line indicates that the phone line attached to the modem for the TransCorder is exclusively used for the unit.

Number of rings to answer: The TransCorder will pick up the phone line to the modem after the number of rings indicated in this field.

Period of line-checking: The TransCorder will check for modem connection in intervals based on the time indicated in this field.

Sequencer Tab Setup (not available on slim size model)

Select the Sequencer tab to display the settings for the CCTV monitor attached to the Video Out connector of the TransCorder.



Channel List:

The user can adjust the settings for the monitor attached to the Video Out connector using these settings:

Enable: Click to activate the Sequencing Monitor function.

Follow Alarm Cameras: If this box is checked, when an alarm is triggered, the appropriate camera will be shown on the Video Out monitor.

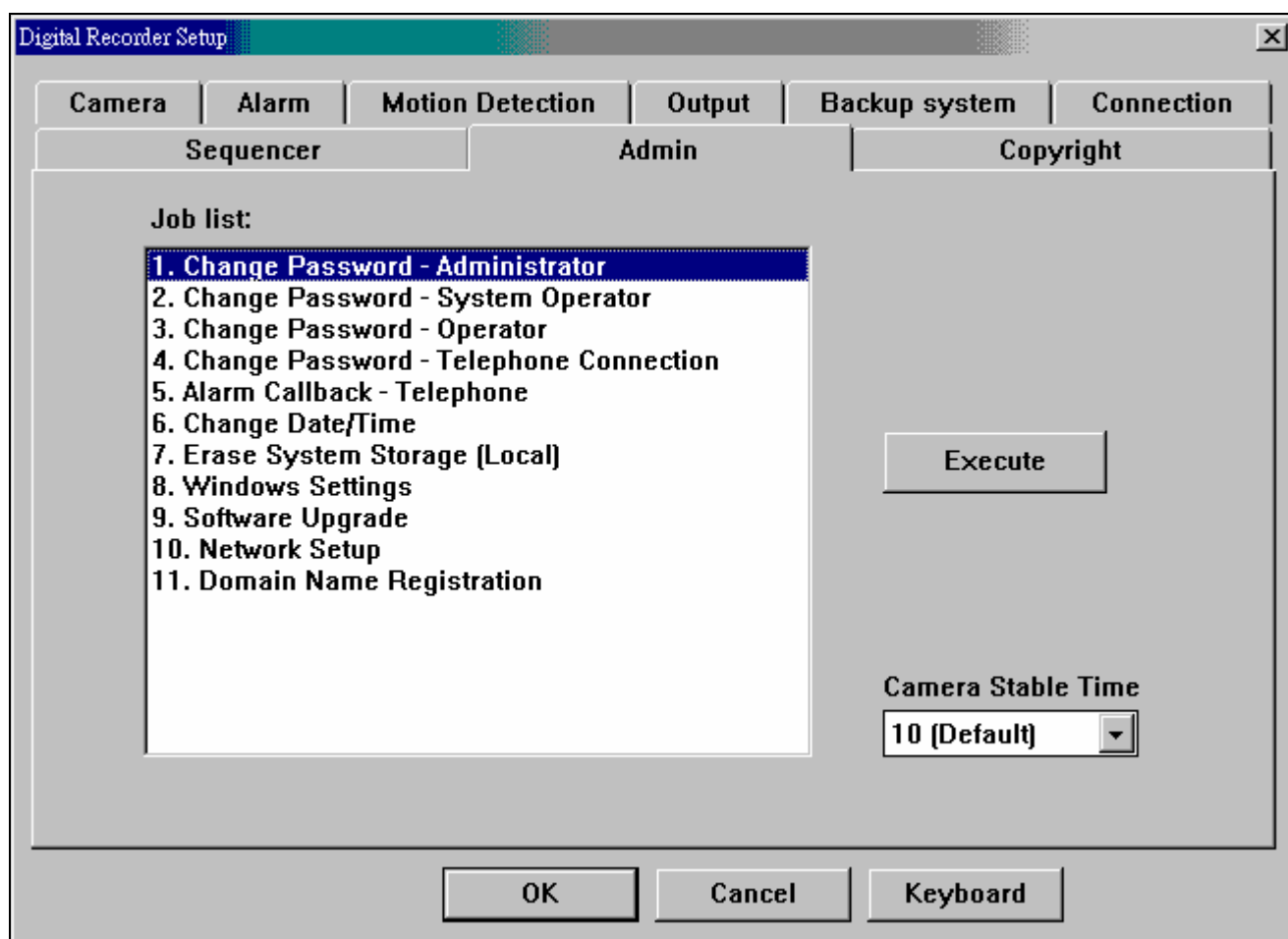
Follow Motion Cameras: If this box is checked, when motion detection is triggered, the appropriate camera will be shown on the Video Out monitor.

Cameras: In this section, the user can highlight all the cameras that he or she would like to feature on the CCTV monitor. Click on the appropriate Camera to highlight it to be used in the sequencing function. Click on a highlighted Camera to deselect it.

Dwell: Set the time the sequencer will feature each highlighted camera before switching to the next camera in the sequence.

Administration Setup

Select the Admin tab to display the Administrator-only features of the TransCorder. Only the Administrator has access to this menu. Click **Execute** to activate the functions in this menu.



This menu features the following administrative functions:

Change Password – Administrator:

Use this to change the master password of the TransCorder system. The default when first starting the TransCorder system is 99999999. This can be changed with this function.

To change this password (or any password), enter the old password, and then enter the new password twice to confirm the new password. The password will take effect when the administrator exits the setup menu.

Change Password – System Operator:

Use this to change the System Operator password of the TransCorder system. You can use the Administrator or old System Operator password to change this password. The System Operator has access to all of the TransCorder functions except for the Admin tab and Shutdown.

Change Password – Operator:

Use this to change the Operator password of the TransCorder system. You can use the Administrator, System Operator password, or old Operator password to change this password. The Operator has access only to the Live Display Screen and the Main Screen.

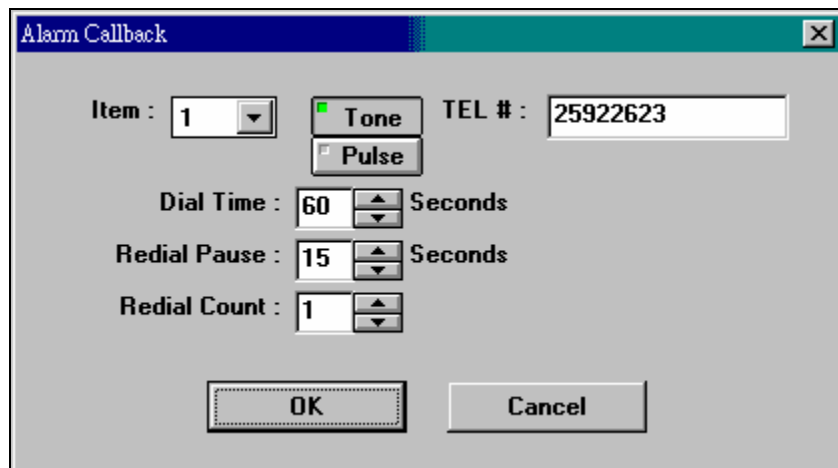
Change Password – Telephone Connection:

Use this to change the Telephone Connection password of the TransCorder system. You can use any existing password to change this password.

When a remote user attempts to connect to the TransCorder unit by modem, the remote user must enter this password in order to complete the connection.

Alarm Callback – Telephone:

When an alarm is triggered on the unit, this feature will allow the TransCorder unit to call any computer that has the TransCorder transmission receiver software active in the computer. The TransCorder will dial up to 4 different phone numbers.



Item: This specifies, from 1 to 4, the order the TransCorder will dial remote transmission receivers until it connects.

- Tone/Pulse:** Specify type of phone system used.
- Telephone #:** Enter the telephone number here.
- Dial Time:** Specifies the length of time the TransCorder will wait for the remote receiver to respond.
- Redial Pause:** If the modem fails to connect, the TransCorder will wait for this amount of time before reattempting to connect.
- Redial Count:** The TransCorder will redial this many times before moving down to the next phone number listed in the Item box.

Change Date/Time: Use this to change the Date and Time of the TransCorder.

Erase System Storage: This permanently deletes all the recorded digital image data stored in the TransCorder. Once the system is erased, the data can no longer be retrieved.

Windows Setting: If “Show Windows Taskbar” is selected, once the user leaves the Setup menu, the Windows Taskbar will appear at the bottom of the unit.

The “**Daily Time Adjustment**” is a feature used to correct any time discrepancy between the speed of the computer time and the actual time. A positive number listed here will make the computer clock run faster. A negative number will mean that the computer will run slower.

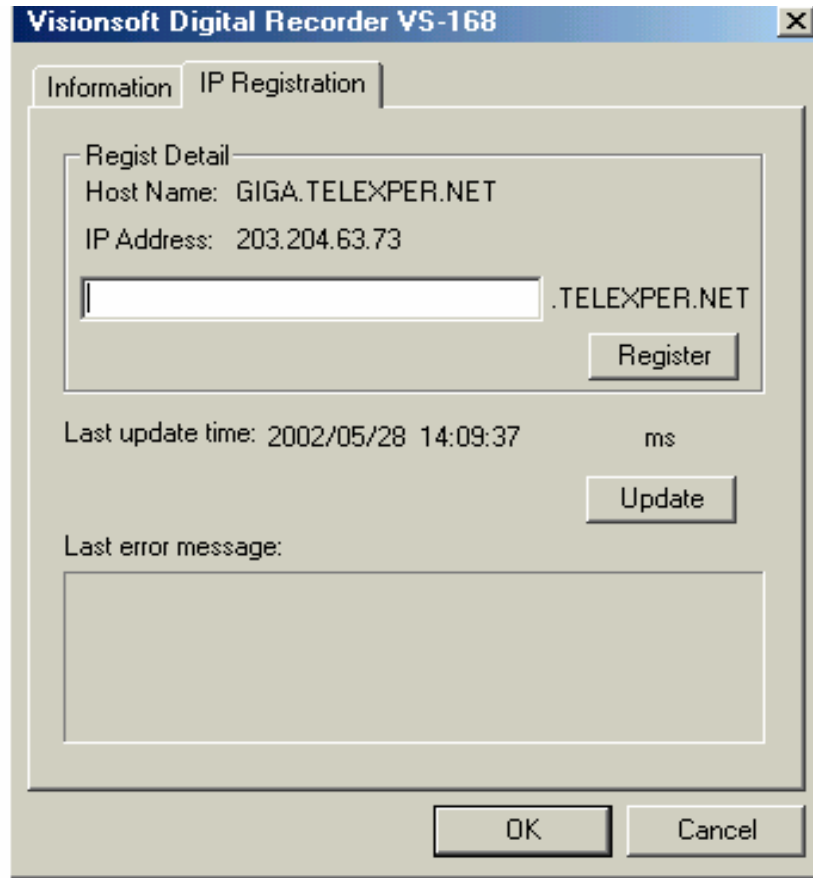
Software Upgrade: If you are given a floppy disk upgrade, select this function to upgrade the unit.

Network Setup: (Not featured in all units) Use this to configure the Network option on Network capable TransCorder ‘s. See Chapter 9 on configuring network for the TransCorder.

Domain Name Registration

For the user who's TransCorder's internet connection that is using Dynamic IP address will now needed to register their IP address through Telexper in order for the remote access to work properly.

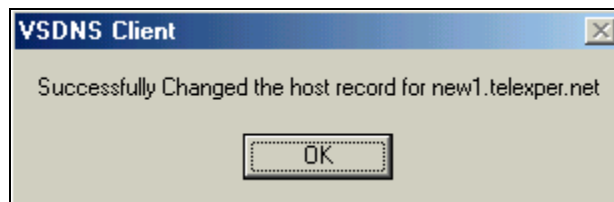
1. From Setup list select **Domain Name Registration** and then press Execute. The IP registration dialog display as following:



2. Enter a new host name in the blank space then press **Register**.

User must enter different IP name for each machine that uses Dynamic IP.

3. When new IP is registered, the confirmation dialog as following will appear to indicate the system now has new host. Press **OK** to complete the registration.



4. Press **OK** again in Setup menu to exit to main screen.

Chapter 8 Exporting Data

The TransCorder saves its recorded information onto the hard drive. Exporting the information can be done in a variety of ways. Images can be printed from a printer attached to the unit or the digital data can be exported as an AVI file.

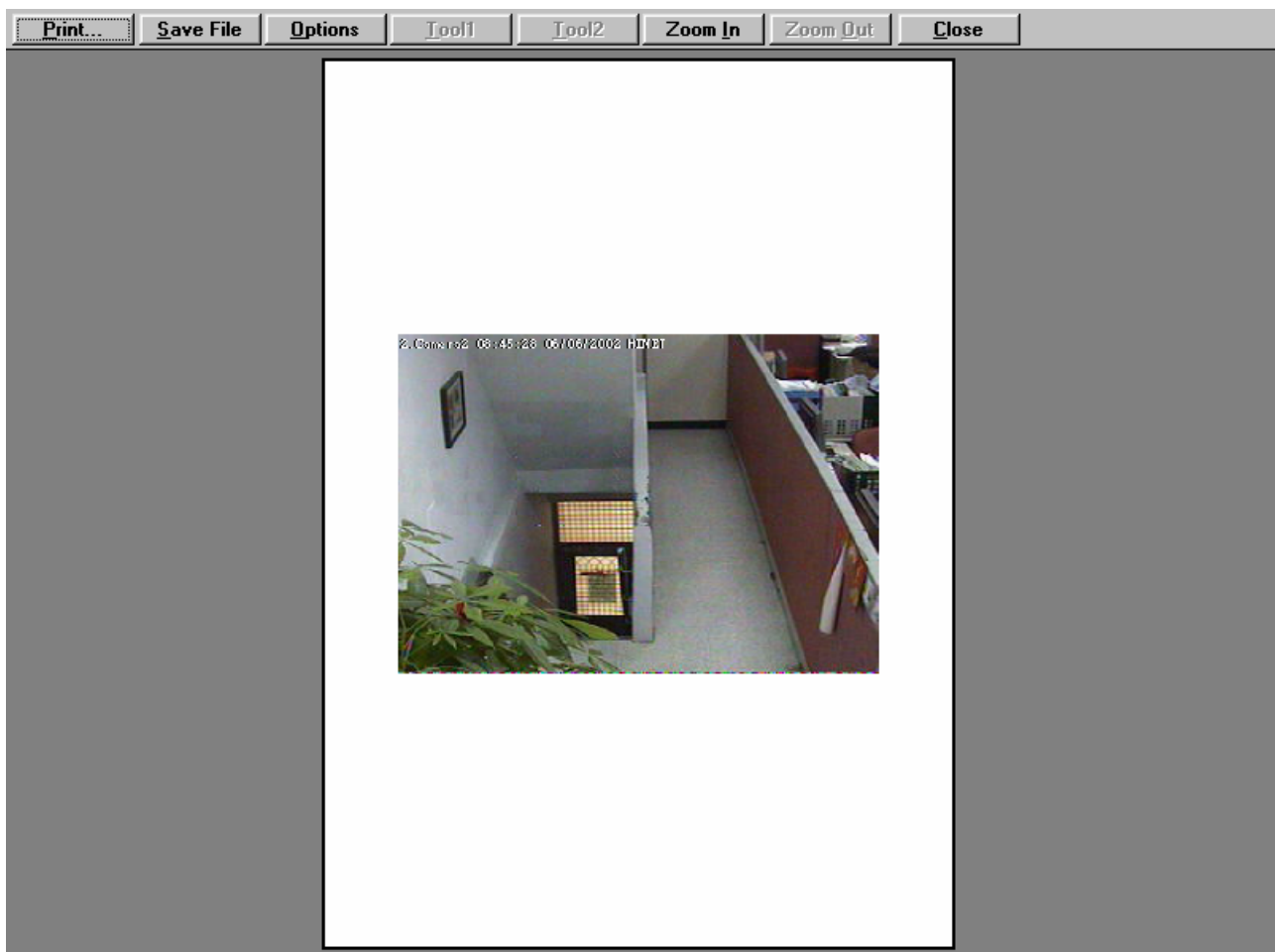
To use these features, enter the Playback menu.

Printing Images

Before printing an image, a printer must be connected to the back of the unit (in order to install drivers, go to the Admin tab under Setup and activate the Windows taskbar).

To print an image, select the image from playback and stop on the image that you wish to print.

Then click the  Printer Icon to print the image.




Print: Select this to print the image from printer.

Save File: Select this to save the image as a BMP file. You can save this on a floppy drive (only on our standard units) or on USB export media. A single image will fill one 1.44MB floppy disk.

Zoom In: This allows the user to magnify the image on the screen.


Zoom Out: This allows the user to decrease the magnification on the screen.

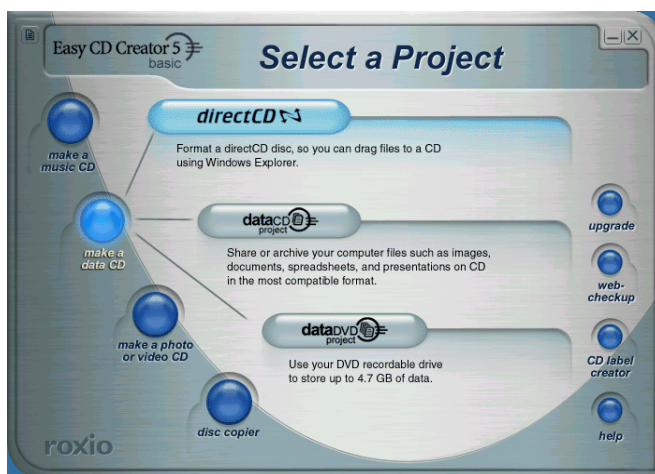
Exporting AVI files

If you want to present a short video footage to the courts or police for evidence purposes, you will need to click on the  button.

Preparing a blank CDR to be used for AVI export (Available on units with CDWriter)

To export AVI files to a blank CDR, you will need to:

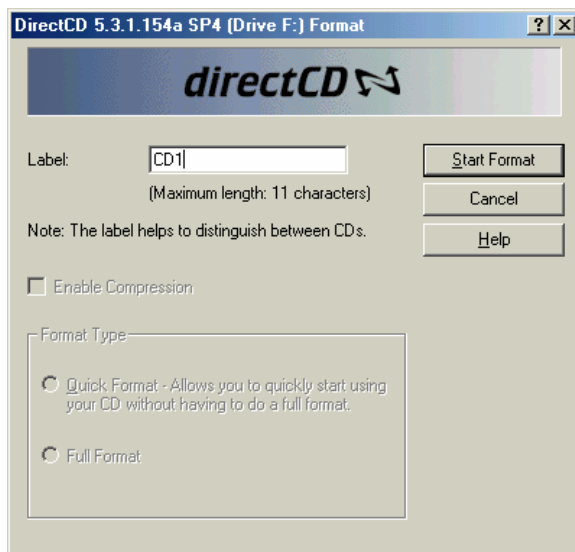
- Click on  the Roxio Project Selector, which can be found on the task bar next to the clock.
- The following screen will appear, select “make a data CD”, then choose “direct CD”



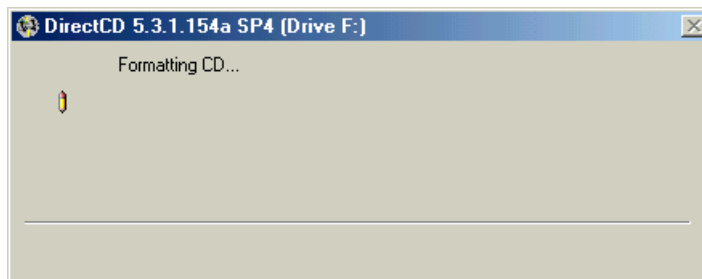
- Click on “format CD” from the following screen:



- d. Enter the label of the CD and click on “Start Format”



- e. Wait for a few seconds for the CDR to be formatted:



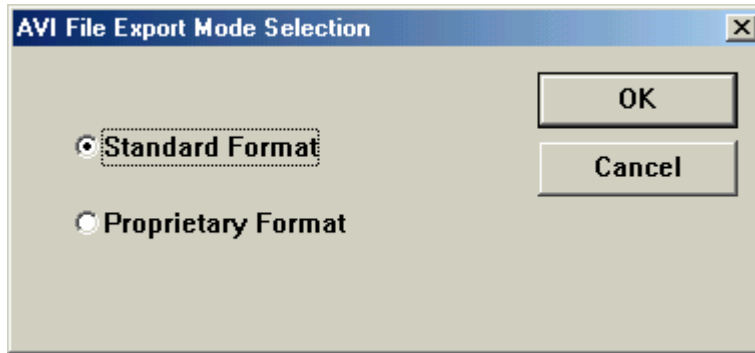
- f. When the formatting process is finished, simply click on “X” to exit the screen



The CDR is now ready for AVI export. It can be used in either of the two exporting formats.

There are two exporting formats:

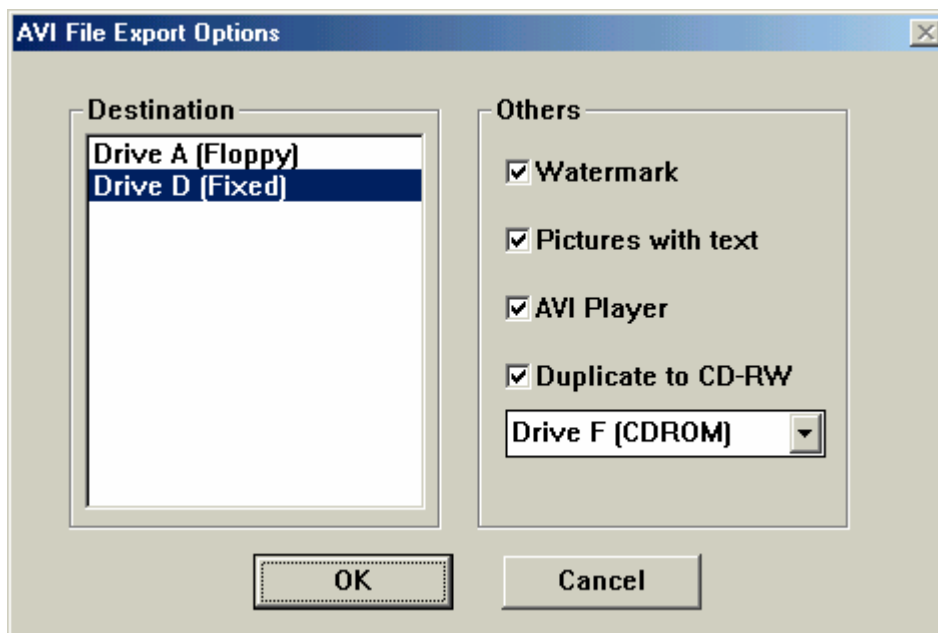
Standard Format



When selecting the Standard Format (standard AVI file format):



- i. After pressing OK, the system displays a box to select the file destination drive.



- ii. If you wish to encode the exported files then select **Watermark**. This will prevent the AVI files from being edited again.
- iii. If you wish to the exported files with information then select **Pictures with text**.
- iv. If you wish to include the AVI player then select **AVI Player**.
- v. To export the images to CD, please select **Duplicate to CD-RW** and choose the corresponding Drive letter from the drop down list. (*Available on units with CDWriter*)

- vi. If the disk or Drive D contains data, the system will ask to erase before saving the data.
- vii. After pressing OK to confirm, press the Play button to begin saving the files onto the selected location. Press Close at anytime to stop.
- viii. These saved AVI files will play on any AVI player such as Windows Media Player. If the **AVI Player** option is checked, the AVI Player will be saved in the same location as the exported files.

Standard Format AVI Player

The standard format AVI player can be access by double clicking on



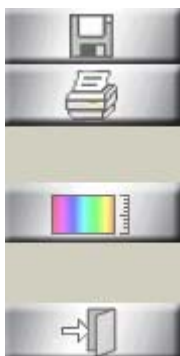
AviPlayr.exe



- To pause
- To reverse play
- To zoom in/out

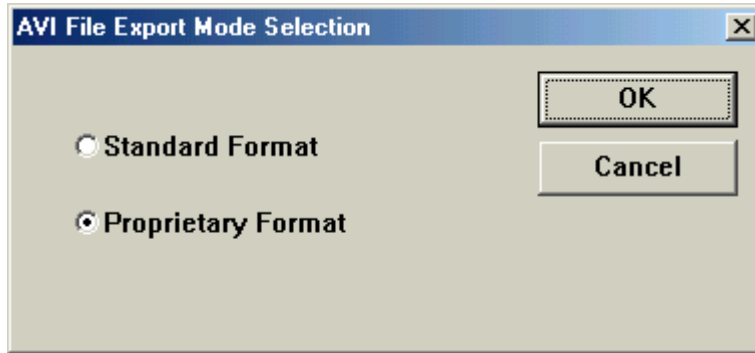


- To adjust the play back speed

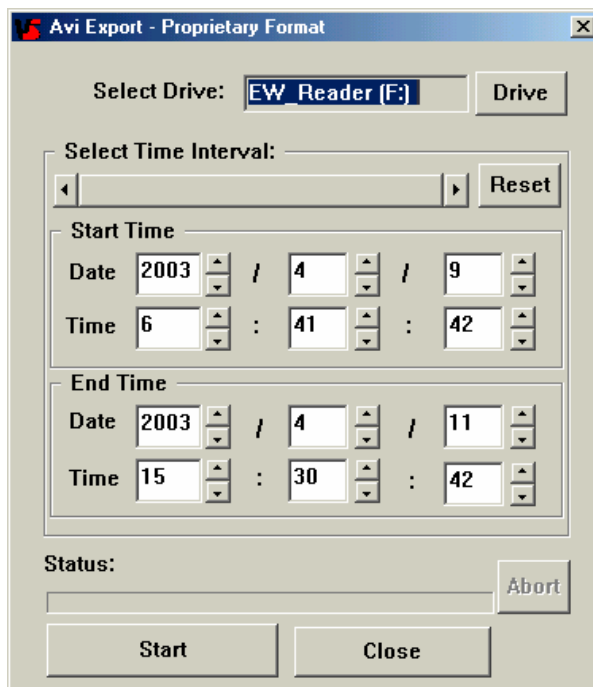


- To save to disk
- To print
- To adjust brightness, contrast and saturation
- To exit the standard format AVI player

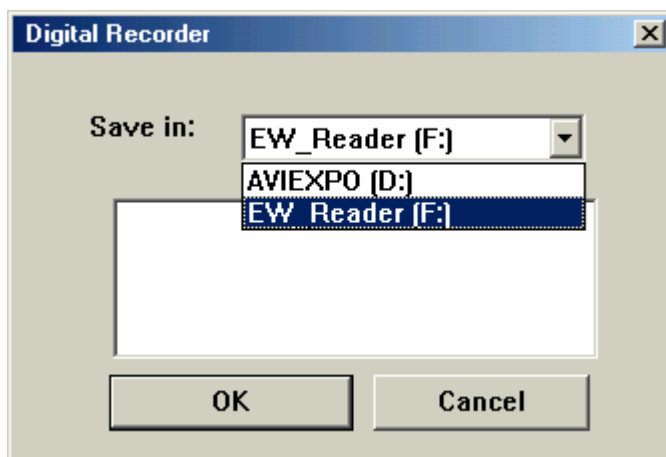
Proprietary Format




When selecting the Proprietary Format:




- a. Click on **Drive** to select where you want to store the AVI files and the following screen will appear:



- b. Select the start time and end time of the Proprietary AVI files you want to export then click on  to start the copying process.
- c. If there is not enough free space, the following error message will appear:



Simply reduce the start time and end time and click on  again to begin the copying process.

Proprietary Format AVI Player

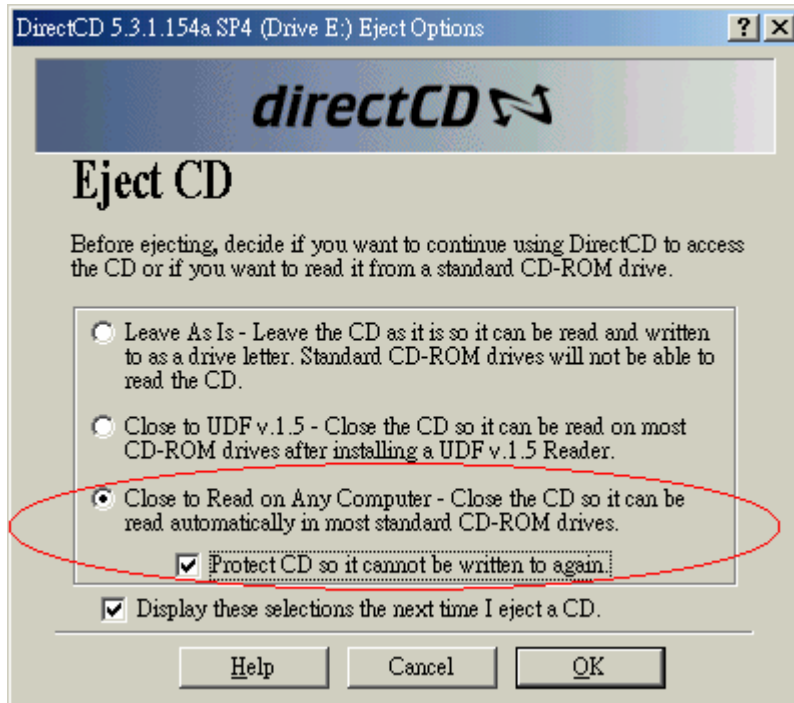
The proprietary format AVI player can be access by double clicking on and the following is its main screen:



To choose the location of the proprietary AVI files, click on Select Path.
To start playing the proprietary AVI files, click on Play.

Ejecting AVI CD (Available on units with CDWriter)

To eject the CD after the AVI exporting process is finished, simply press the eject button on the CDWriter and the following screen will appear:



Make sure “Close to Read on Any Computer....” and “Protect CD so it cannot be written to again” are selected.

Click OK and it will takes a few seconds for the CD to be ejected.

Chapter 9 Network Installation

Note: The Network option does not appear on all units.

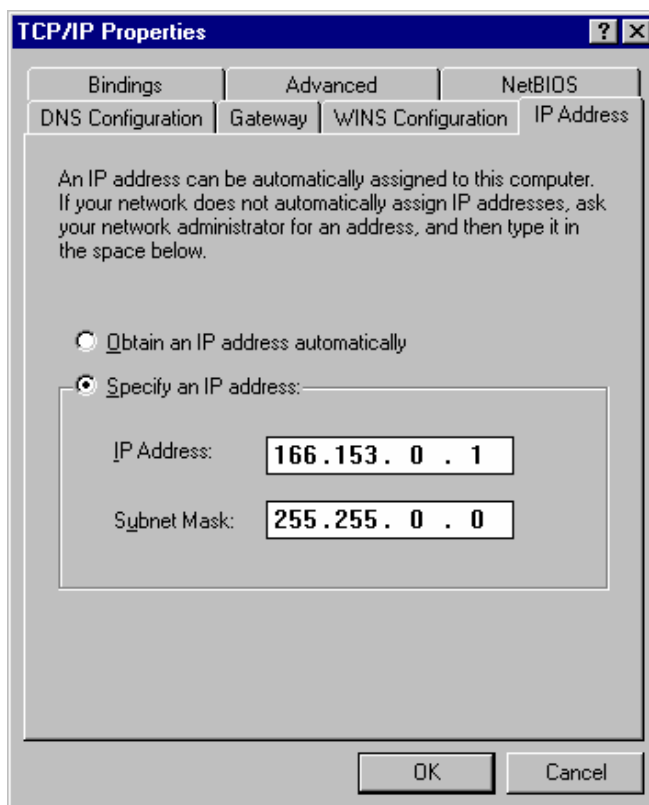
This chapter will address setting up the network on the TransCorder. In the Setup section under the Admin tab, there is a section called “Network Setup.” If you are familiar with the Network setup portion of Windows 98 or ME, selecting this will bring up the Windows Network configuration section.

The user will need a keyboard attached to the unit. The onscreen keyboard will not be active during this phase.

Please refer to your network administrator for assistance in configuring the network portion of the TransCorder. In the case that you do not have a network administrator, please regard the following setup :

How to setup Network

1. Click the **Configuration** tab.
2. Select **TCP/IP**.
3. Click **Properties**.
4. In the TCP/IP Properties dialog box, click the **IP Address** tab; and then select the **Specify an IP address**.






5. Configure the IP Address and Subnet Mask.

- IP Address: 166.153.0.1 (for the first recorder), 166.153.0.2 (for the second recorder), etc.
- Subnet Mask: 255.255.0.0 (All systems connected to the same local area network must have the same subnet mask.)

6. Click **OK**.**Domain Name Registration** (Not featured in all units)

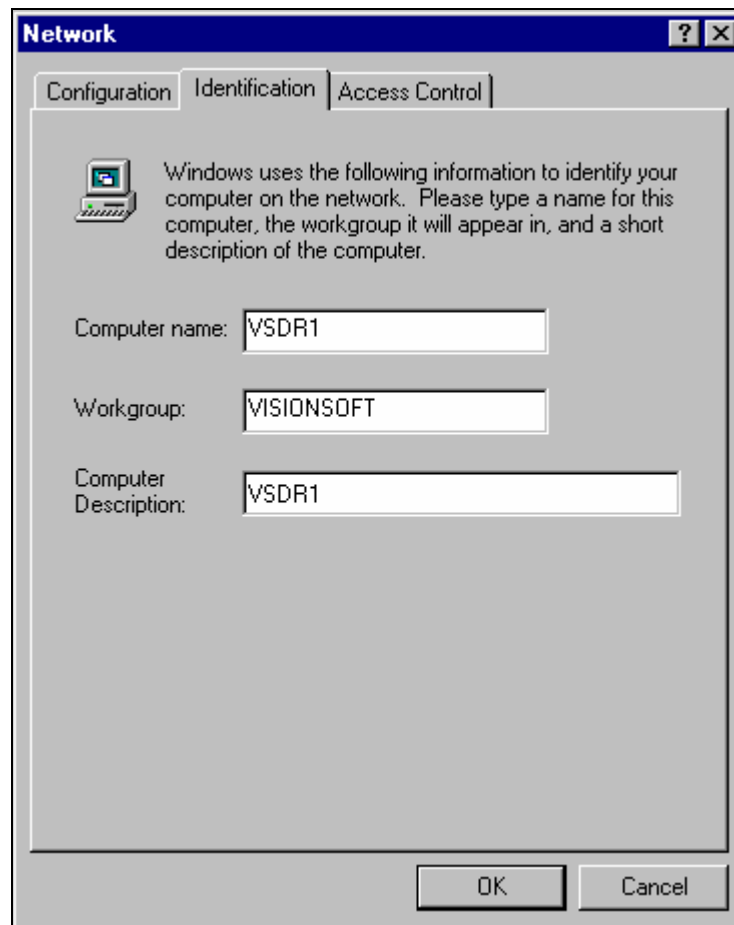
For TransCorder that use Dynamic IP address, users can register their IP address through Telexper in order for the remote access to work properly.

1. From Setup list select **Domain Name Registration** and then press Execute.
2. Enter a new host name in the blank space then press . User must enter different IP name for each machine that uses Dynamic IP.
3. When new IP is registered, the confirmation dialog will appear to indicate the system now has new host. Press  to complete the registration.
4. Press  again in Setup menu to exit to main screen.

Setting Machine Names and Workgroup

When possible, leave this portion to the Network Administrator.

1. In the **Network** panel, click the **Identification** tab.



2. Type the values for the machine identification setting.
 - **Computer name:** The machine name must be unique on the network. Name VSDR1 for the first machine, VSDR2 for the second, ...etc.
 - **Workgroup:** The workgroup name does not need to be unique, type in any name you wish. (VISIONSOFT is our recommendation)
 - **Computer Description:** Type in the as same as computer name is recommended.
3. Press **OK** to complete setting.